String Quartet IV: “Irrational” in Polytempic Polymicrotonality

by

Peter Thoegersen

2018

Legend

All pitches will have standard accidentals and microtonal pitches will receive numerical cents values placed above the note-head. All trills will involve either the same pitch shade with two microtonal cent differences, or a second shade and its microtonal nuances, along with microtonal cents indicated for bottom note first and then top note, next to trill sign. Only repeated notes and longer notes a quarter note and longer, will be microtonally indicated in this piece due to the fast tempi and quick rhythmic acuity, therefore, I suggest playing shorter/faster notes with "standard" pitch as they are too fast to be labored upon, unless you feel you can accomplish the task. Particularly if one is adept at mean-tone tuning, these muscle memory hand positions will be preferable to 12tet for the faster passages.

Open strings for all instruments will remain standard and no scordatura will be necessary. Many figures with open string indications will comprise some of the multi-stops, as an anchor for both the ear, and fingering. If naturally open, it will be indicated by "open" sign above it, as in "open string." Smaller microtonal pitch sets will be assigned to a standard letter name and its accidental and no cents will be necessary.

Some figures may entail a long bowed note on open string while performing a left hand pizzicato, which may be awkward, but highly effective.

Violin I: (with cents numbers)	(without cents numbers, at 75 cent intervals)	**Violin II:** (with cents numbers)	(without cents numbers)	**Viola:** (without cents numbers)
27 EDO, or Tet, at @44 cent intervals, starting with:	16 EDO (this also includes **Viola**)	31 EDO, or Tet, at @39 cent intervals:	19 EDO, at @63 cent intervals:	16 EDO--**shared with Violin I**
0-1/1 = C	0-1/1 = C	0-1/1 = C	0-1/1 = C	10 EDO, at 120 cent intervals
44 = C	75 = C#	39 = C	63 = C#	0-1/1 = C
88 = C#/Db	150 = Db	77 = C#	126 = Db	120 = C#
133 = C#/Db	225 = D	116 = C#/Db	189.5 = D	240 = D
178 = D	300 = D#/Eb	155 = Db/D	252 = D#	360 = E
222 = D	375 = E	193.5 = D	316 = Eb	480 = F
266 = D#/Eb	450 = E#/Fb	232 = D	379 = E	600 = F#
311 = D#/Eb	525 = F	271 = D#	442 = E#/Fb	720 = G
355 = E	600 = F#	310 = Eb	505 = F	840 = G#

400 = E
444 = E
488 = F
533 = F
577 = F#/Gb
622 = F#/Gb
666 = G
710 = G
755 = G#/Ab
800 = G#/Ab
844 = G#/Ab
888 = A
932 = A
977 = A#/Bb
1021 = A#/Bb
1065 = B
1110 = B
1154 = B
1200 = C

675 = Gb
750 = G#
825 = Ab
900 = A
975 = A#
1050 = Bb
1125 = B#
1200 = C

348 = Eb/E
387 = E
426 = E/Fb
464.5 = Fb
503 = F
542 = F
581 = F#
619 = Gb
658 = Gb/G
697 = G
735.5 = G
774 = G#/Ab
813 = Ab
852 = A
890 = A#
929 = A#/Bb
968 = Bb
1007 = Bb
1045 = Bb#
1084 = B
1122.5 = B
1161 = B#
1200 = C

568 = F#
631.5 = Gb
695 = G
758 = G#
821 = Ab
884 = A
947 = A#
1010 = Bb
1074 = B
1137 = B#/Cb
1200 = C

960 = A
1080 = B
1200 = C

Cello: (without cents numbers)

14 EDO, or Tet, at @86 cent intervals, starting with:

0-1/1 = C

86 = C#

172 = D

257 = D#

343 = Eb

429 = E

515 = F

600 = F#

686 = G

772 = G#

857 = A

943 = A#

1029 = Bb

1115 = B

(without cents numbers)

8 EDO, or Tet, at 150 cent intervals

0-1/1 = C

150 = Db

300 = Eb (D#)

450 = E#

600 = F# (Gb)

750 = G

900 = A

1050 = Bb

1200 = C

Part I; "e"

String Quartet IV

NO vibrato

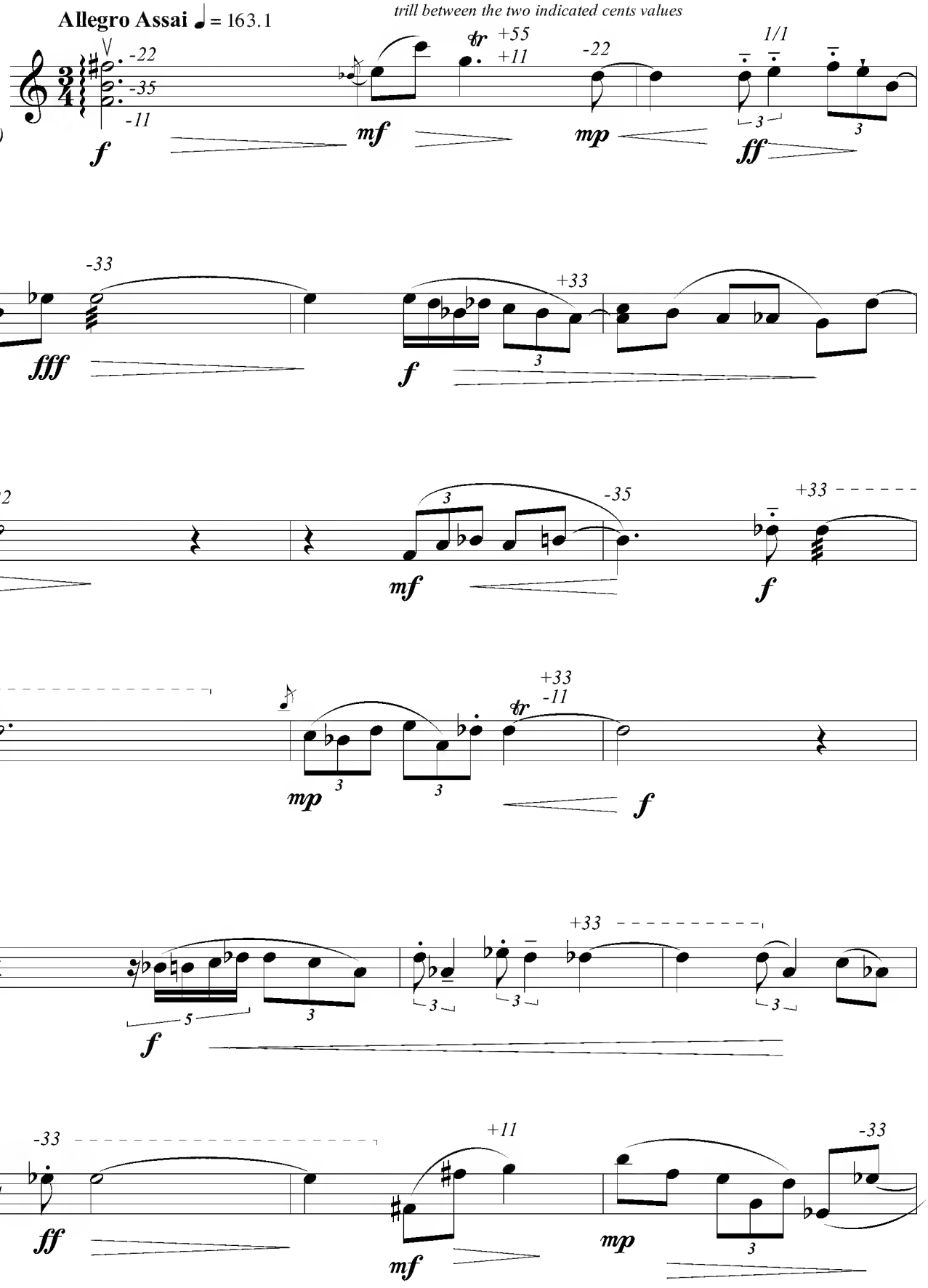
Irrational

Peter Thoegersen

Allegro Assai ♩ = 163.1

trill between the two indicated cents values

Violin I
27 > 16 edo
(augmented tuning)



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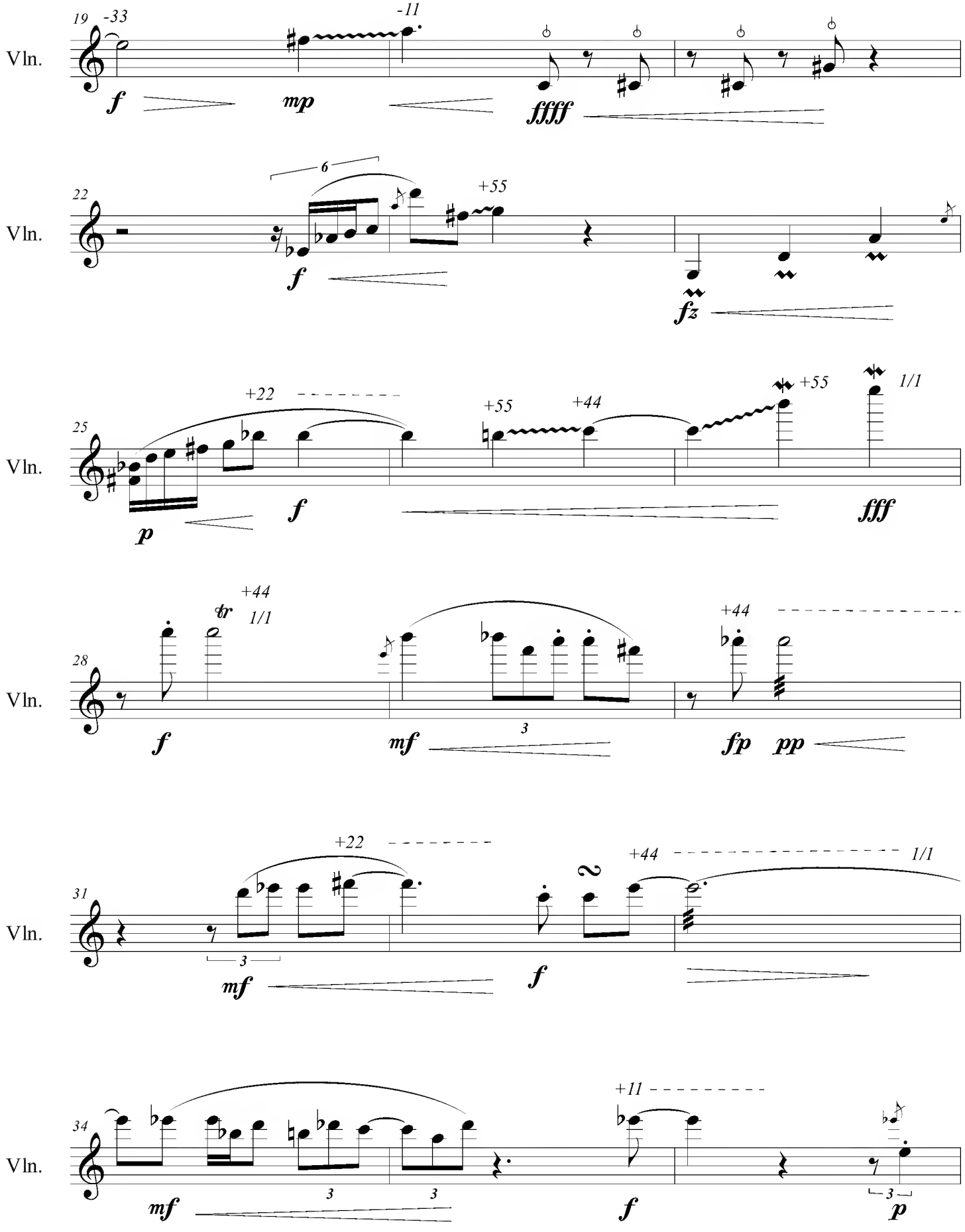
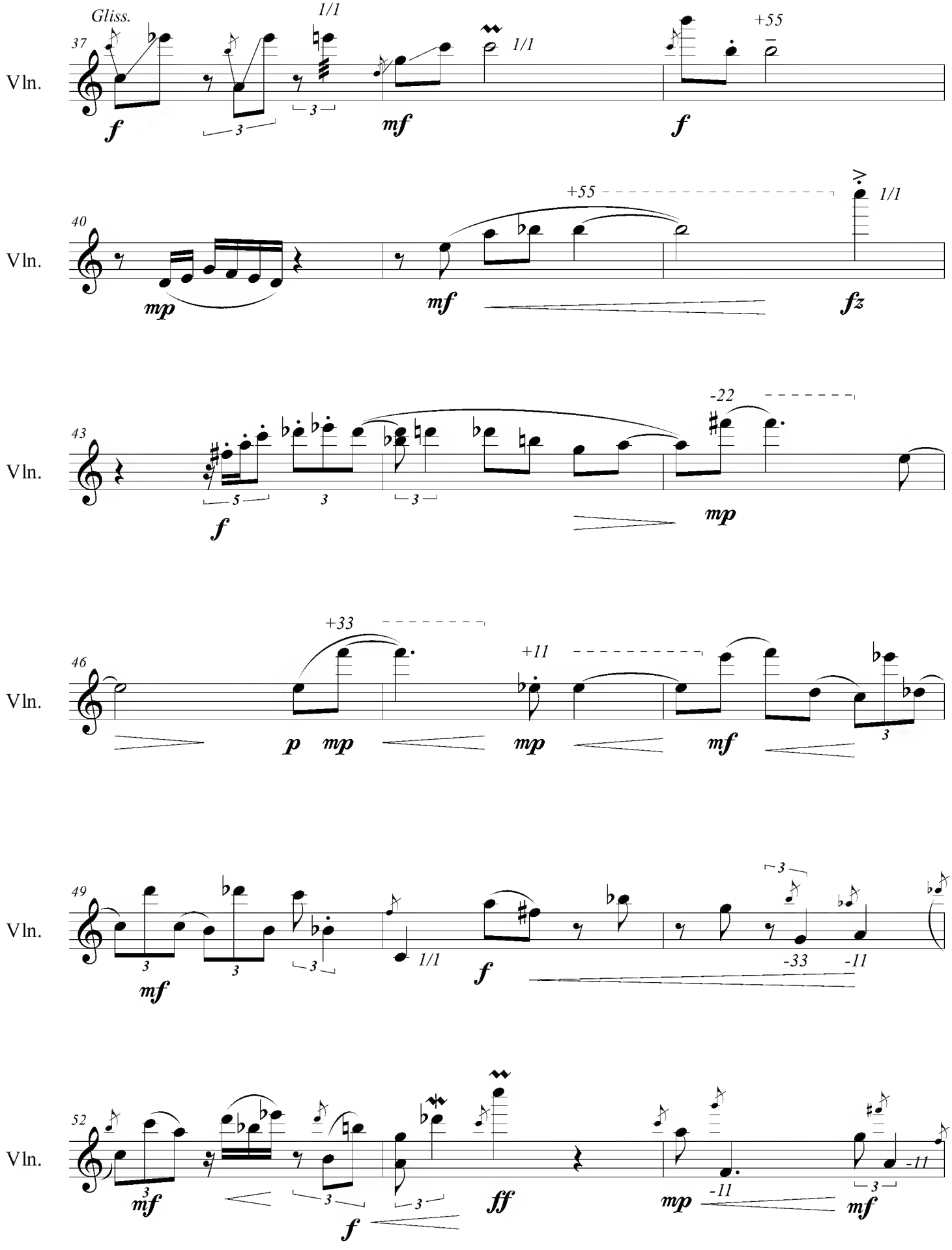
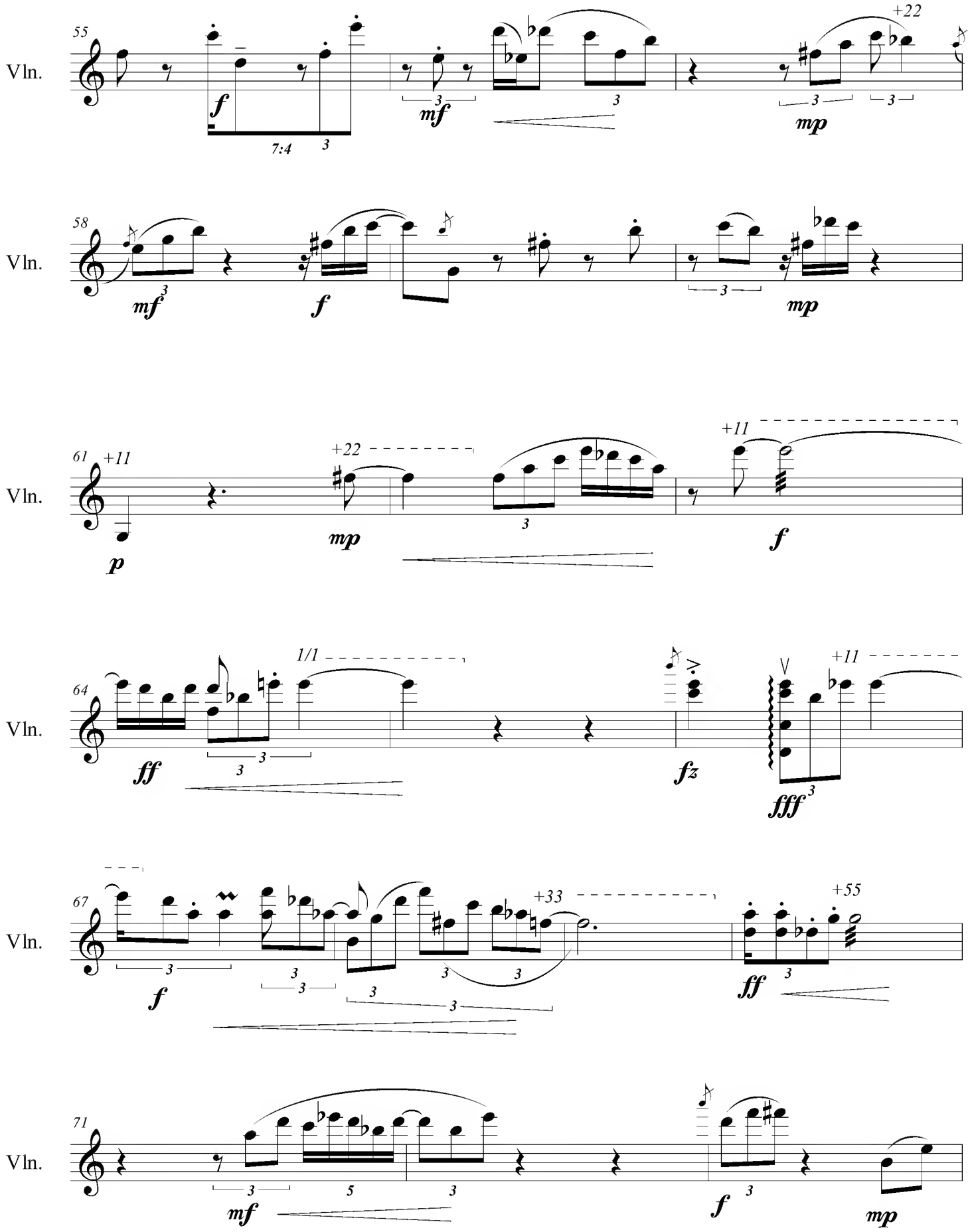
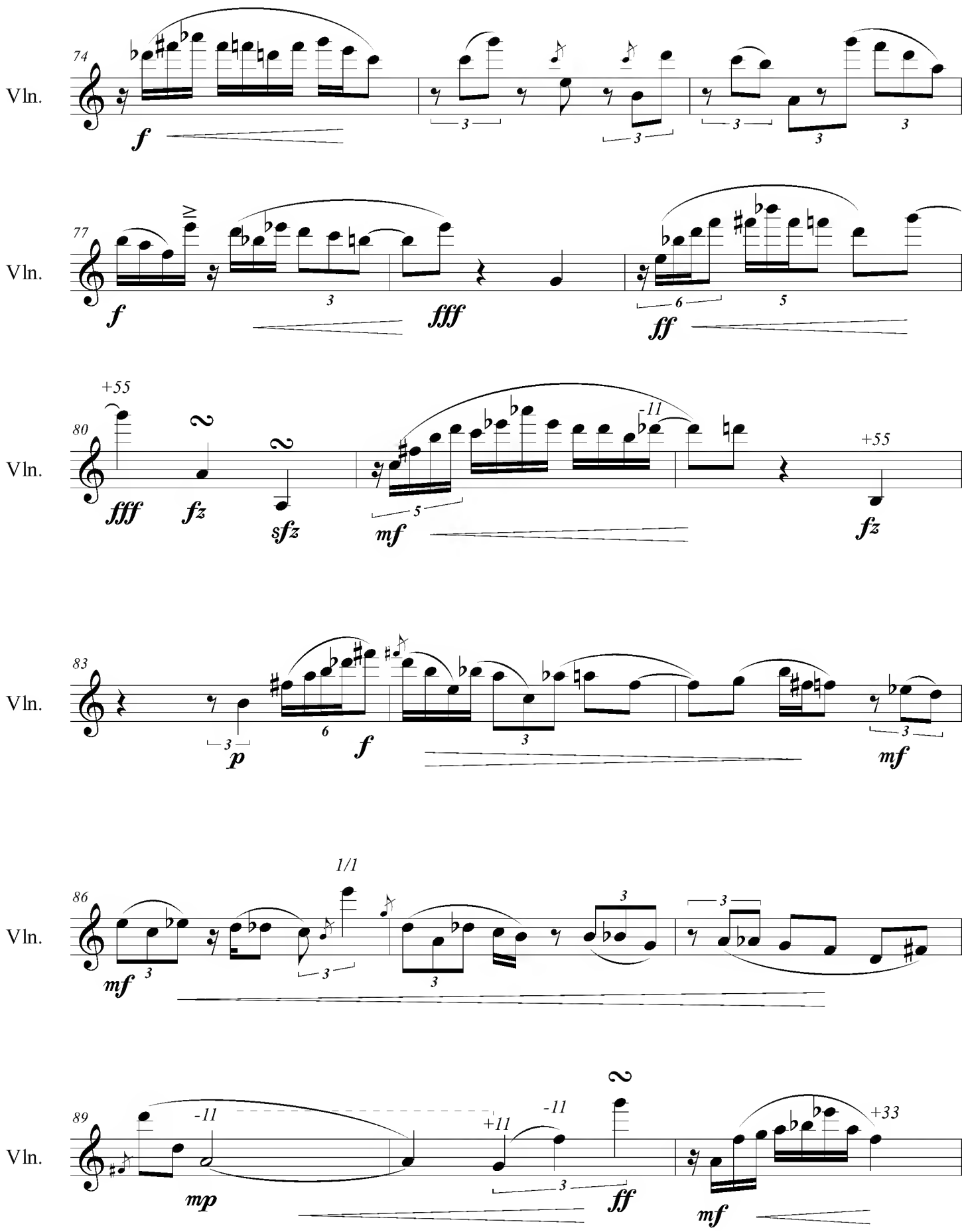
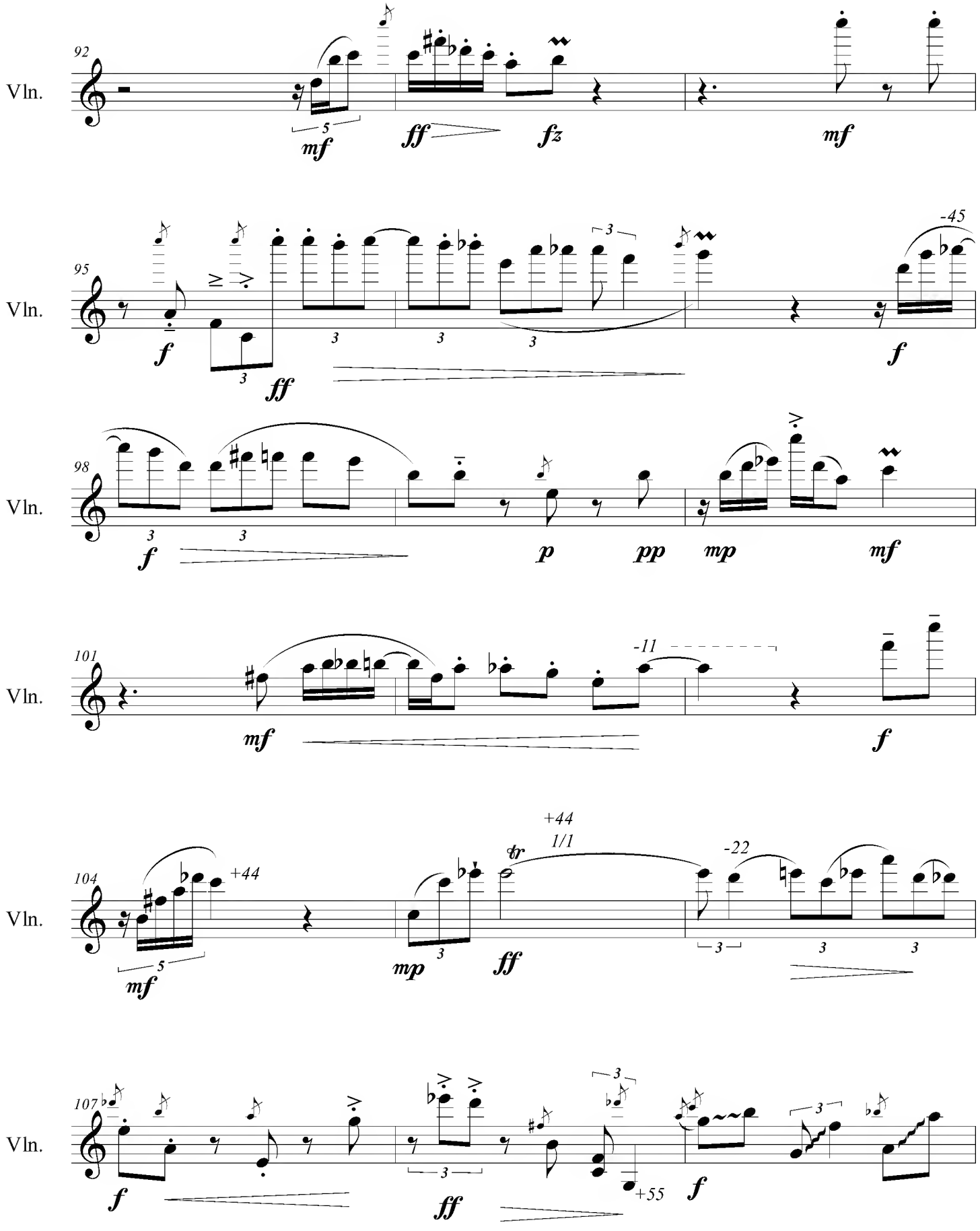
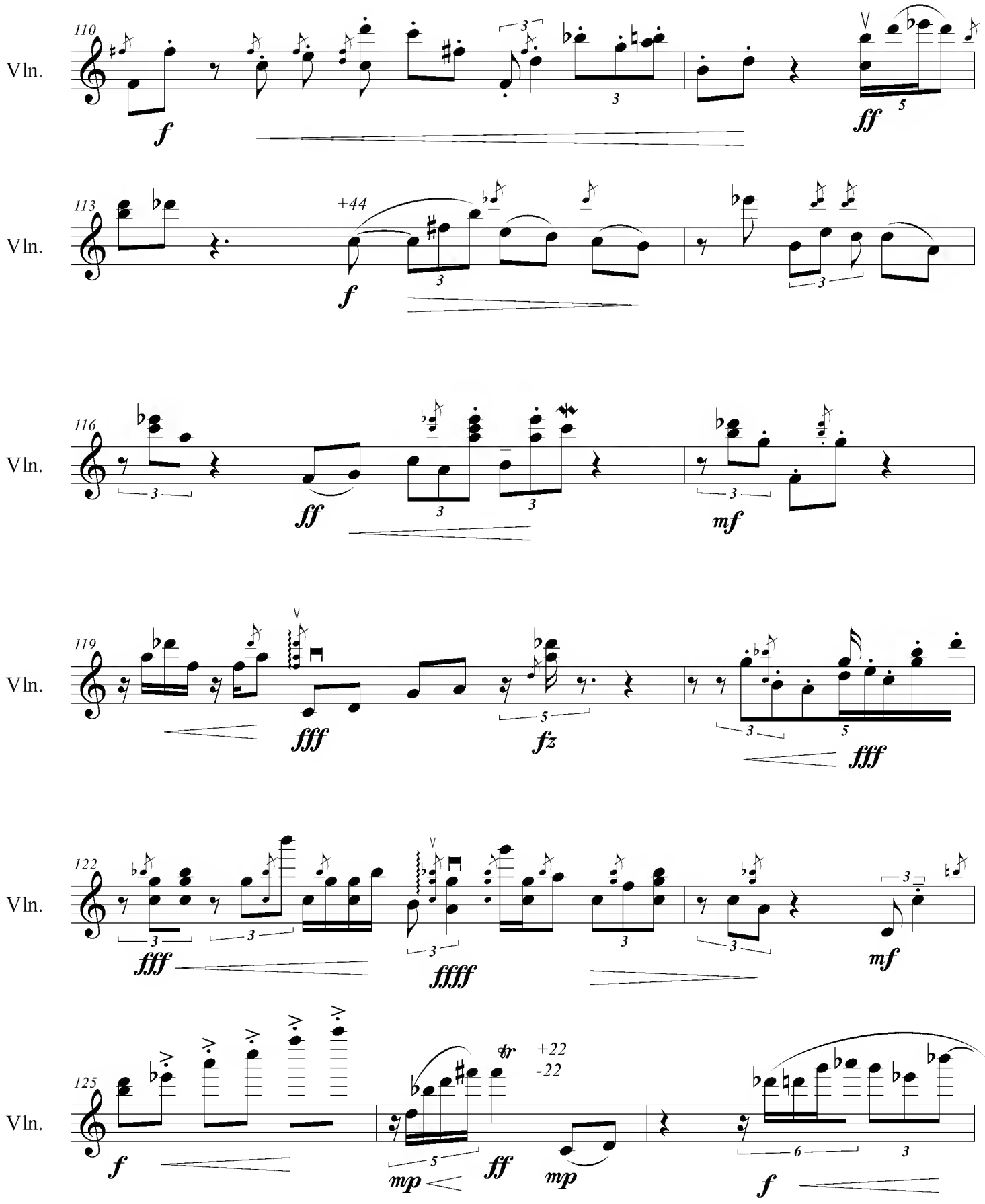

19 -33
-11
Vln.
f
mp
ffff
22
6
+55
Vln.
f
fz
25
+22
+55
+44
+55
1/1
Vln.
p
f
fff
28
+44
1/1
tr
Vln.
f
mf
3
+44
fp
pp
31
+22
+44
1/1
Vln.
3
mf
f
34
+11
Vln.
mf
3
3
f
3
p

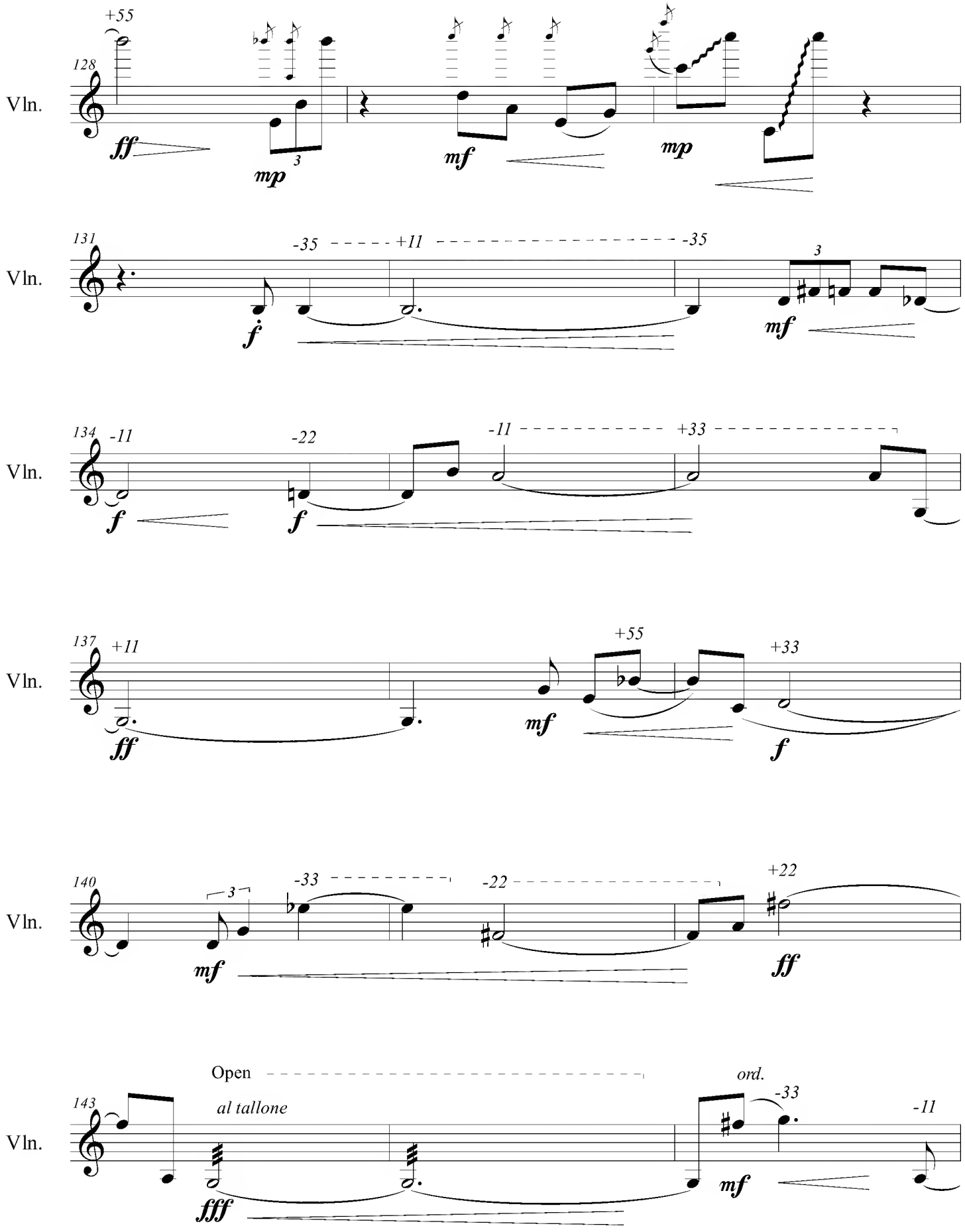

Gliss.
37
Vln.
f
1/1
mf
1/1
+55
f
40
Vln.
mp
+55
mf
1/1
fz
43
Vln.
f
-22
mp
46
Vln.
p
mp
+33
mp
+11
mf
49
Vln.
mf
1/1
f
-33
-11
52
Vln.
mf
f
ff
mp
-11
-11
mf

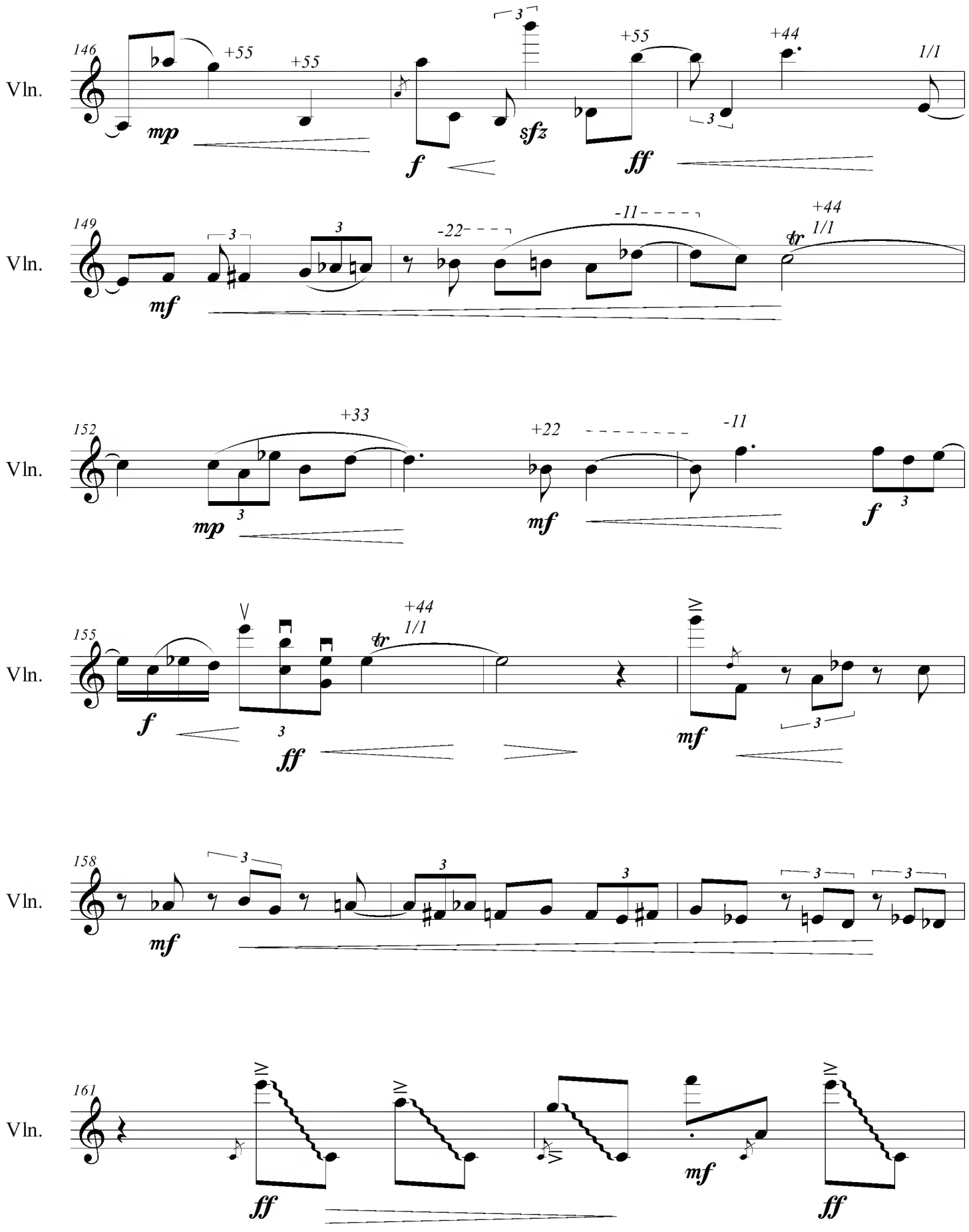

55
+22
Vln.
f
mf
mp
7:4
58
Vln.
mf
f
mp
61
+11
+22
+11
Vln.
p
mp
f
64
1/1
+11
Vln.
ff
fz
fff
67
+33
+55
Vln.
f
ff
71
Vln.
mf
f
mp

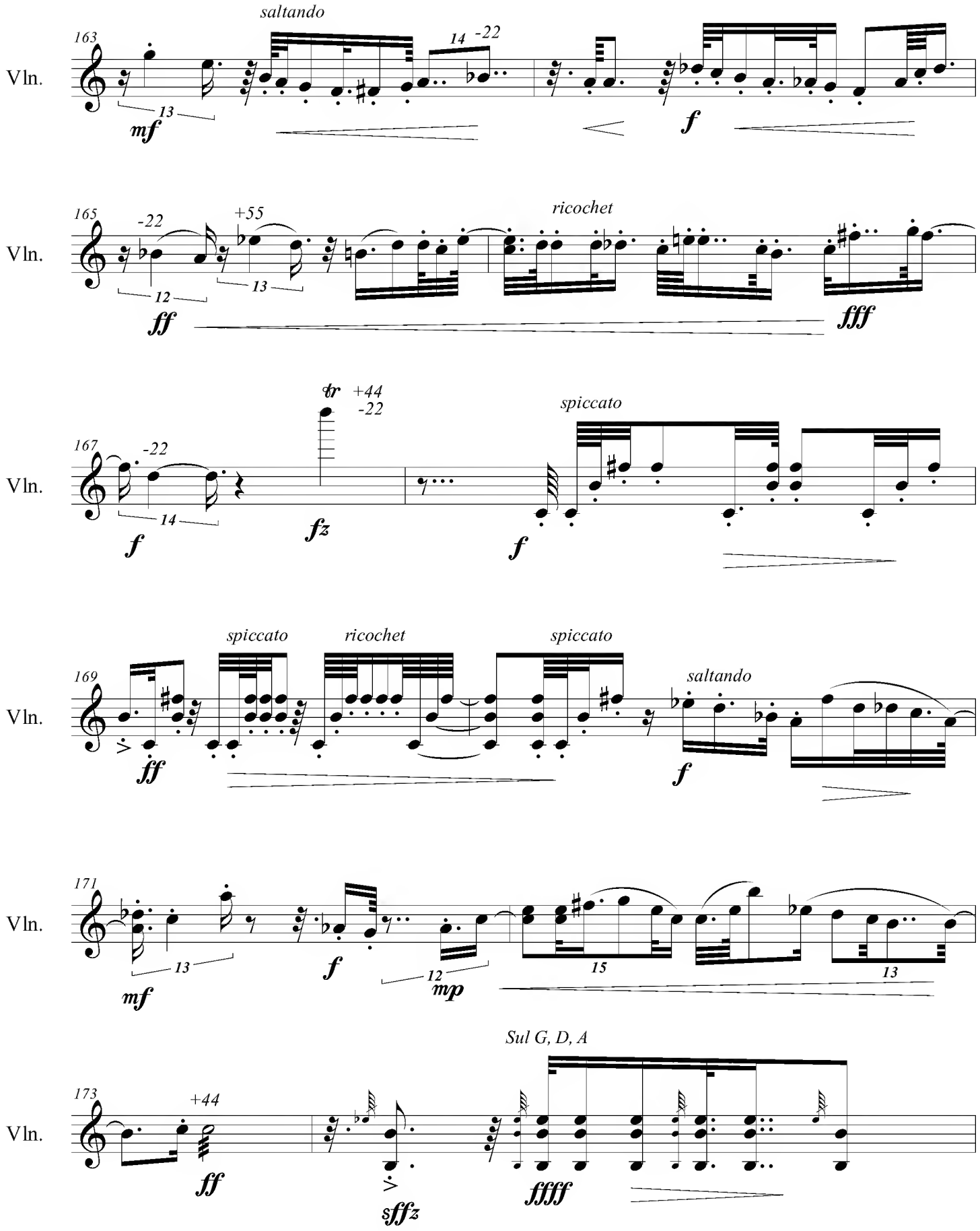

74
Vln.
f
77
Vln.
f
fff
ff
80
Vln.
+55
fff
fz
sfz
mf
-11
+55
fz
83
Vln.
p
f
mf
86
Vln.
1/1
mf
89
Vln.
-11
mp
+11
-11
ff
mf
+33

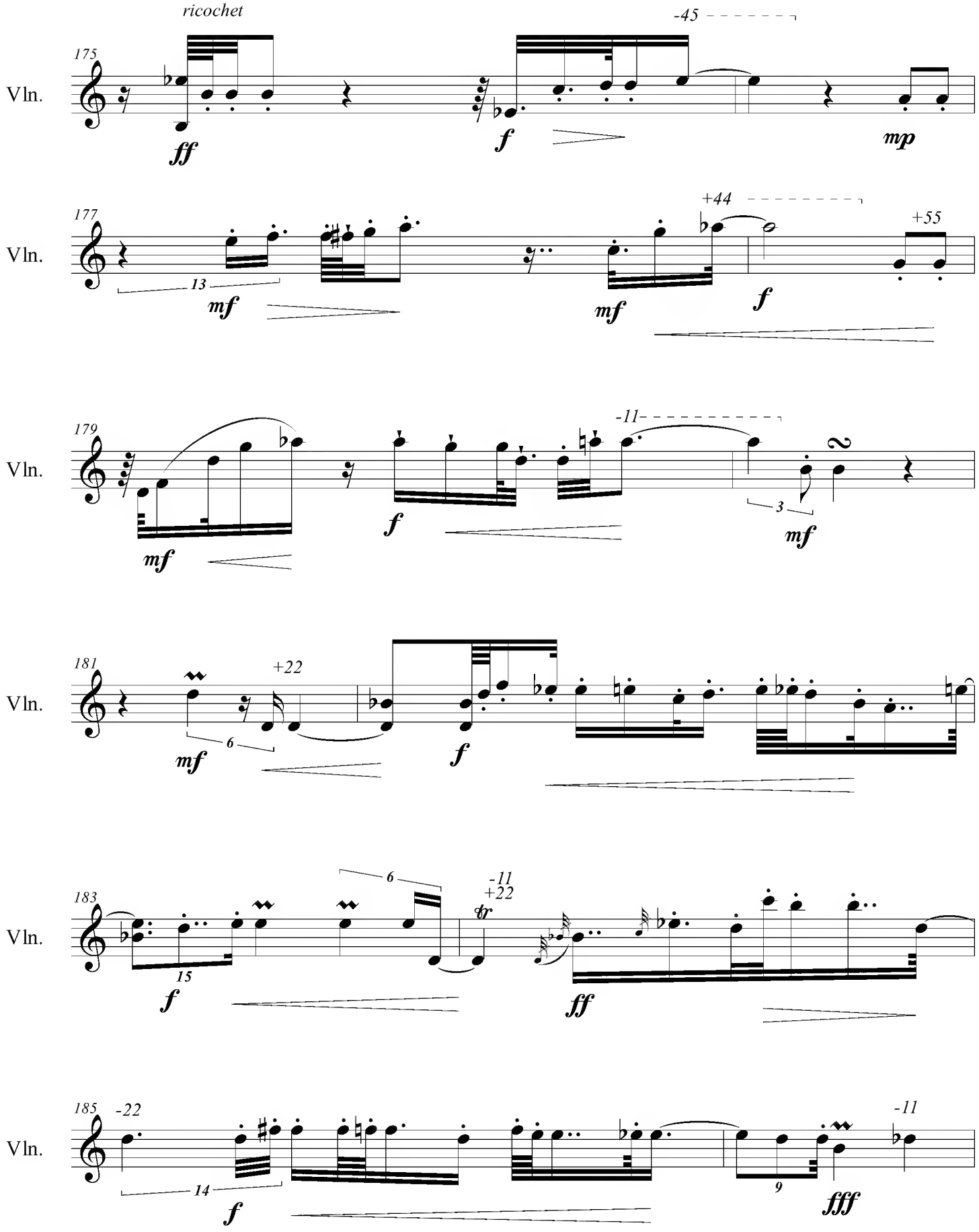

92
Vln.
mf
ff
fz
mf
95
Vln.
f
ff
-45
f
98
Vln.
f
p
pp
mp
mf
101
Vln.
mf
-11
f
104
Vln.
+44
mf
mp
ff
+44
1/1
-22
107
Vln.
f
ff
+55
f

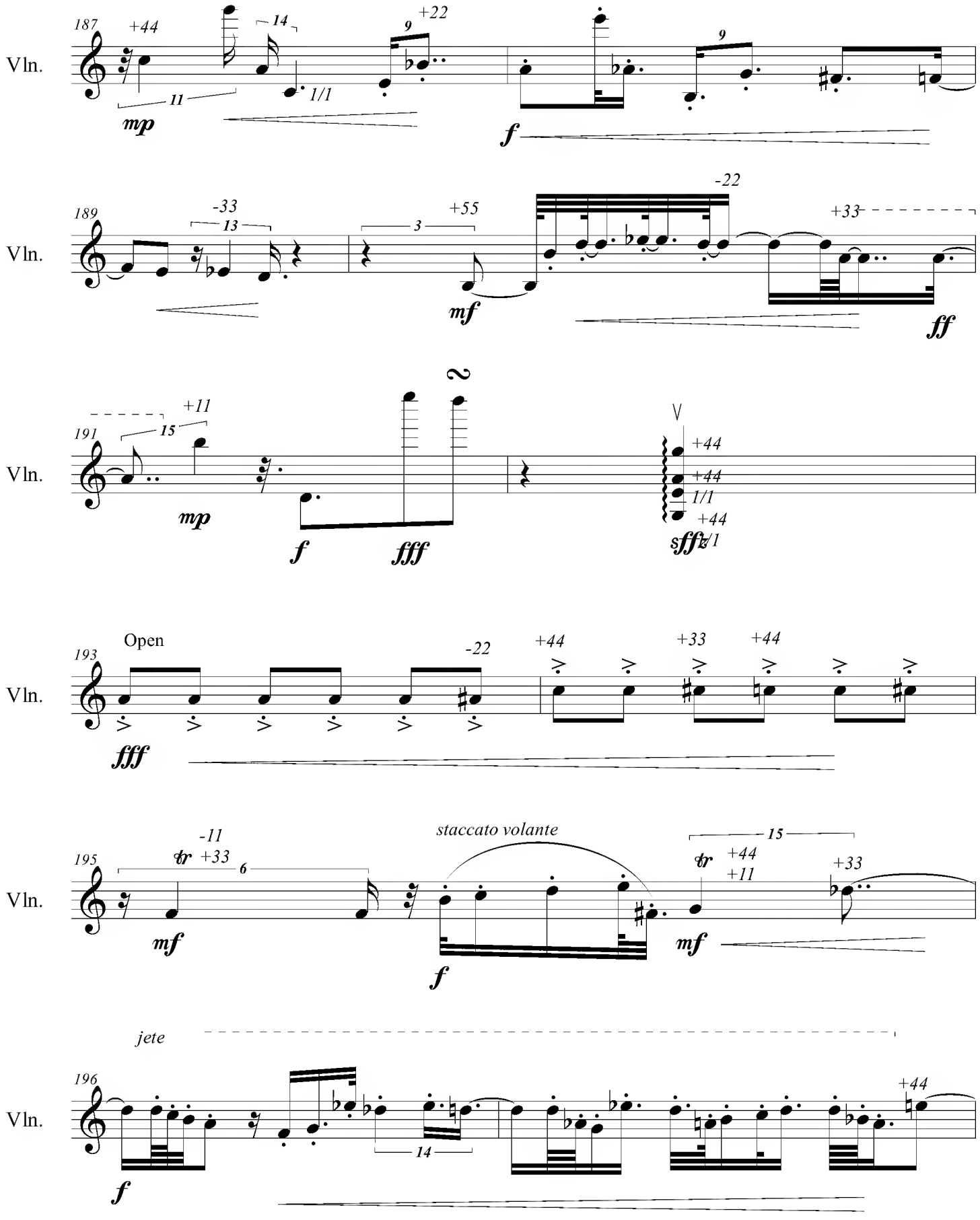

110
Vln.
f
ff
113
Vln.
+44
f
116
Vln.
ff
mf
119
Vln.
fff
fz
fff
122
Vln.
fff
ffff
mf
125
Vln.
f
mp
ff
mp
tr
+22
-22
f

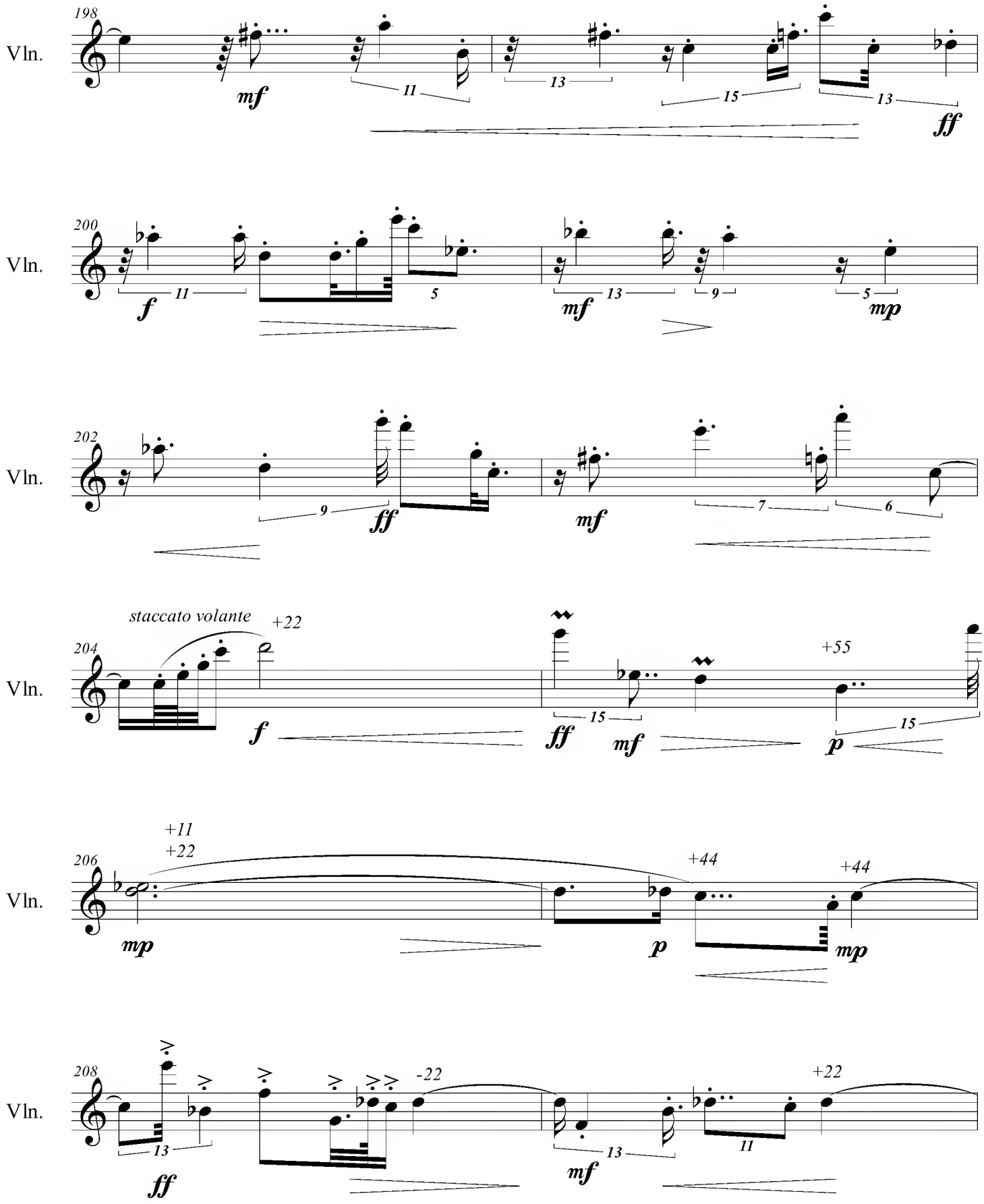

128
+55
Vln.
ff
mp
3
mf
mp
131
-35
+11
-35
Vln.
f
3
mf
134
-11
-22
-11
+33
Vln.
f
f
137
+11
+55
+33
Vln.
ff
mf
f
140
3
-33
-22
+22
Vln.
mf
ff
Open
ord.
143
al tallone
-33
-11
Vln.
fff
mf

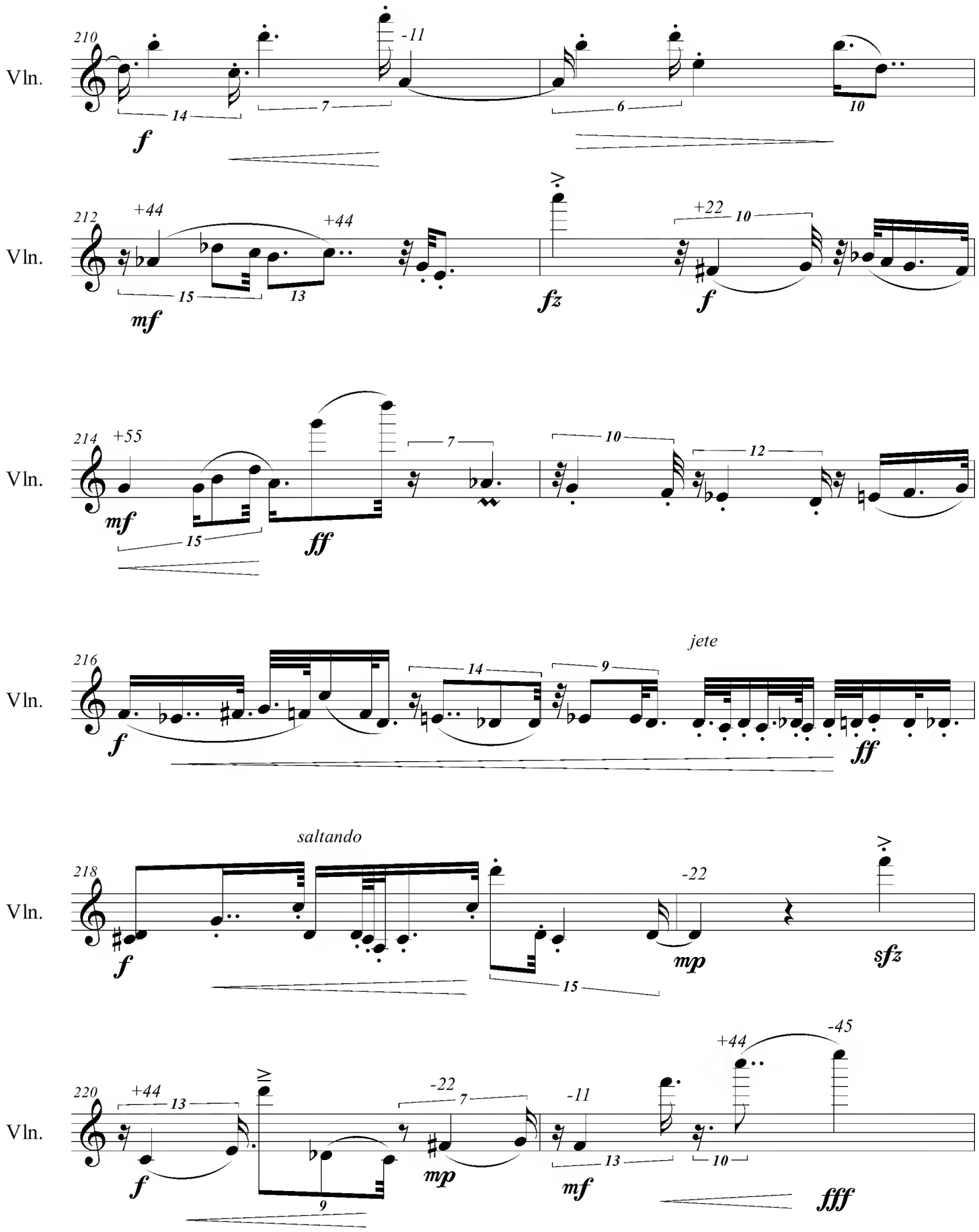

146
Vln.
+55
+55
+55
+44
1/1
mp
f
sfz
ff
149
Vln.
-22
-11
+44
1/1
mf
152
Vln.
+33
+22
-11
mp
mf
f
155
Vln.
+44
1/1
f
ff
mf
158
Vln.
mf
161
Vln.
ff
mf
ff

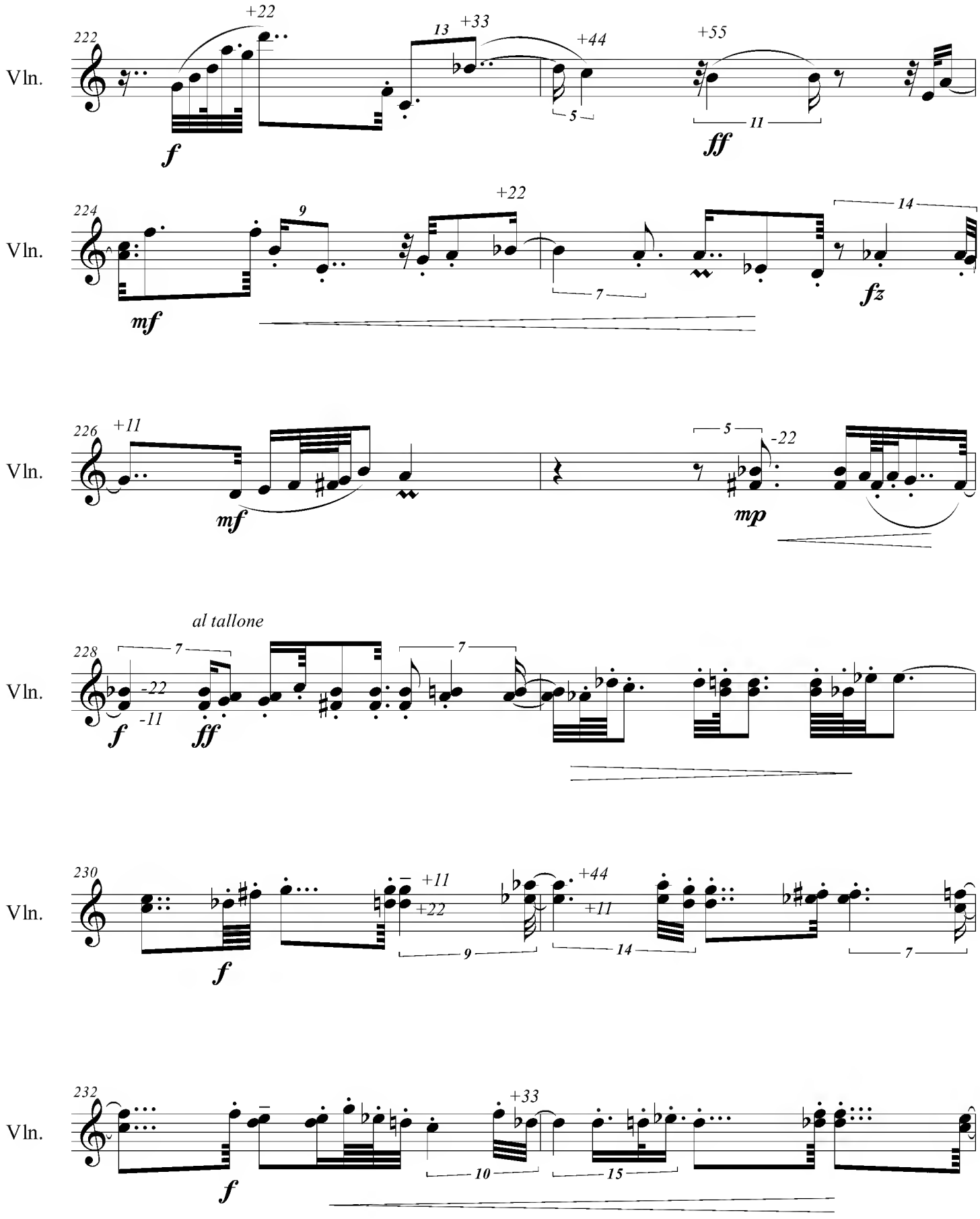

Vln.
163
saltando
14 -22
13
mf
f
Vln.
165
-22
+55
ricochet
12
13
ff
fff
Vln.
167
-22
tr +44
-22
spiccato
14
f
fz
f
Vln.
169
spiccato
ricochet
spiccato
saltando
ff
f
Vln.
171
13
mf
f
12
mp
15
13
Vln.
173
+44
Sul G, D, A
ff
sffz
ffff

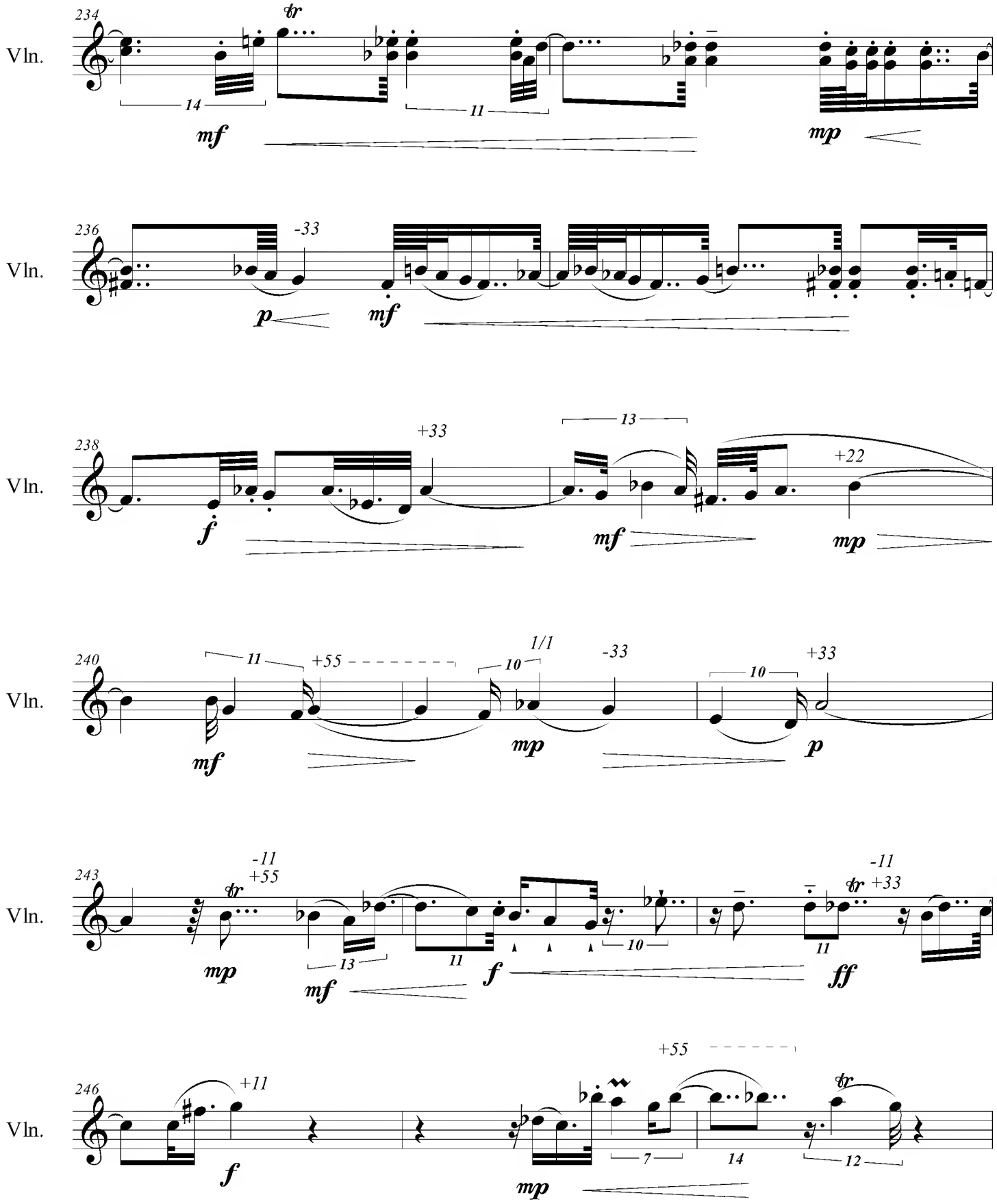

ricochet
175
Vln.
ff
-45
f
mp
177
Vln.
13
mf
+44
mf
f
+55
179
Vln.
mf
f
-11
3
mf
181
Vln.
+22
6
mf
f
183
Vln.
6
15
f
-11
+22
tr
ff
185
-22
Vln.
14
f
9
-11
fff

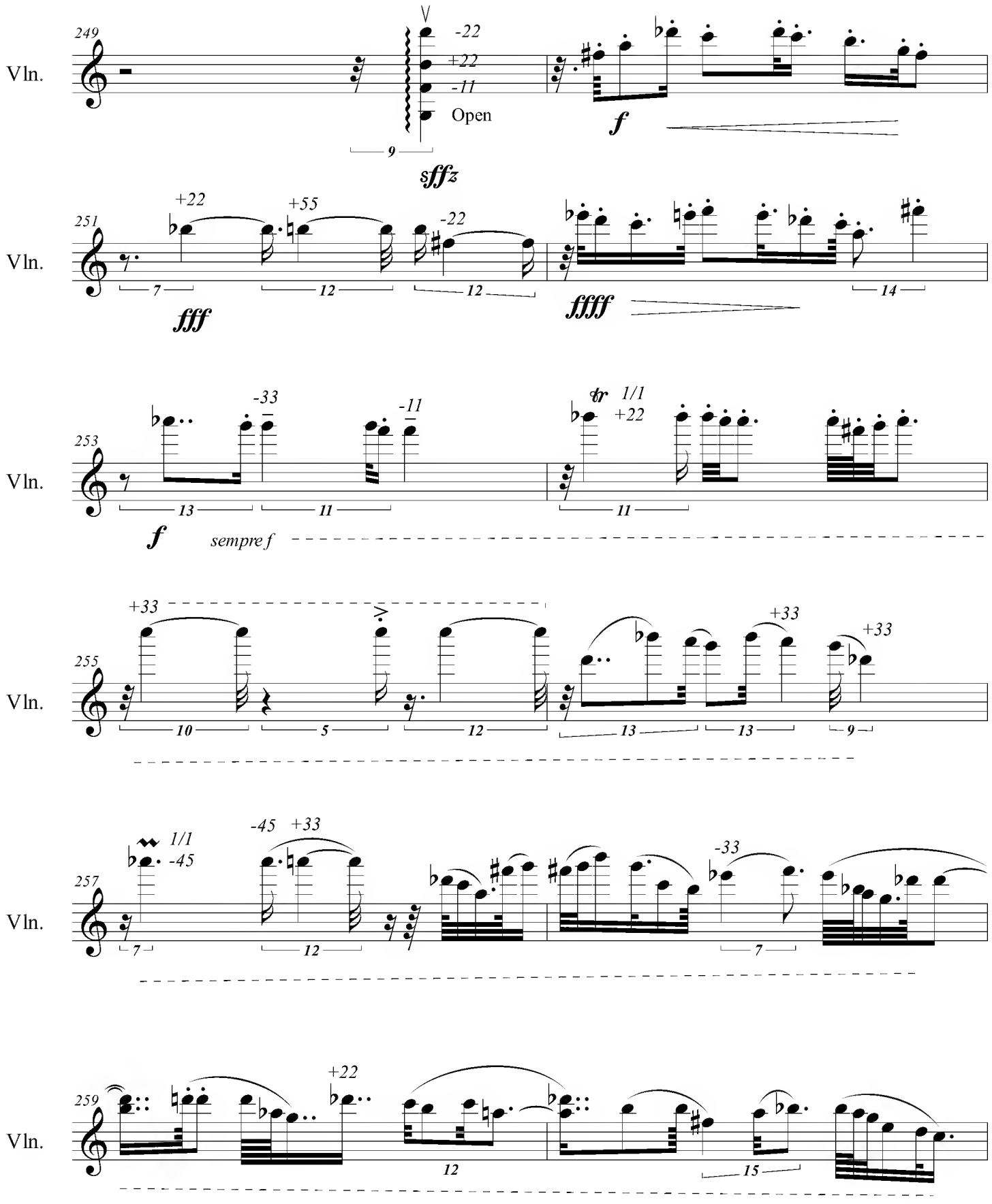

187
Vln.
+44
11
14
1/1
9
+22
mp
f
189
Vln.
-33
13
3
+55
-22
+33
mf
ff
191
Vln.
+11
15
mp
f
fff
V
+44
+44
1/1
+44
sfff
193
Vln.
Open
-22
+44
+33
+44
fff
195
Vln.
-11
tr
+33
6
mf
staccato volante
f
15
tr
+44
+11
+33
mf
jete
196
Vln.
14
+44
f

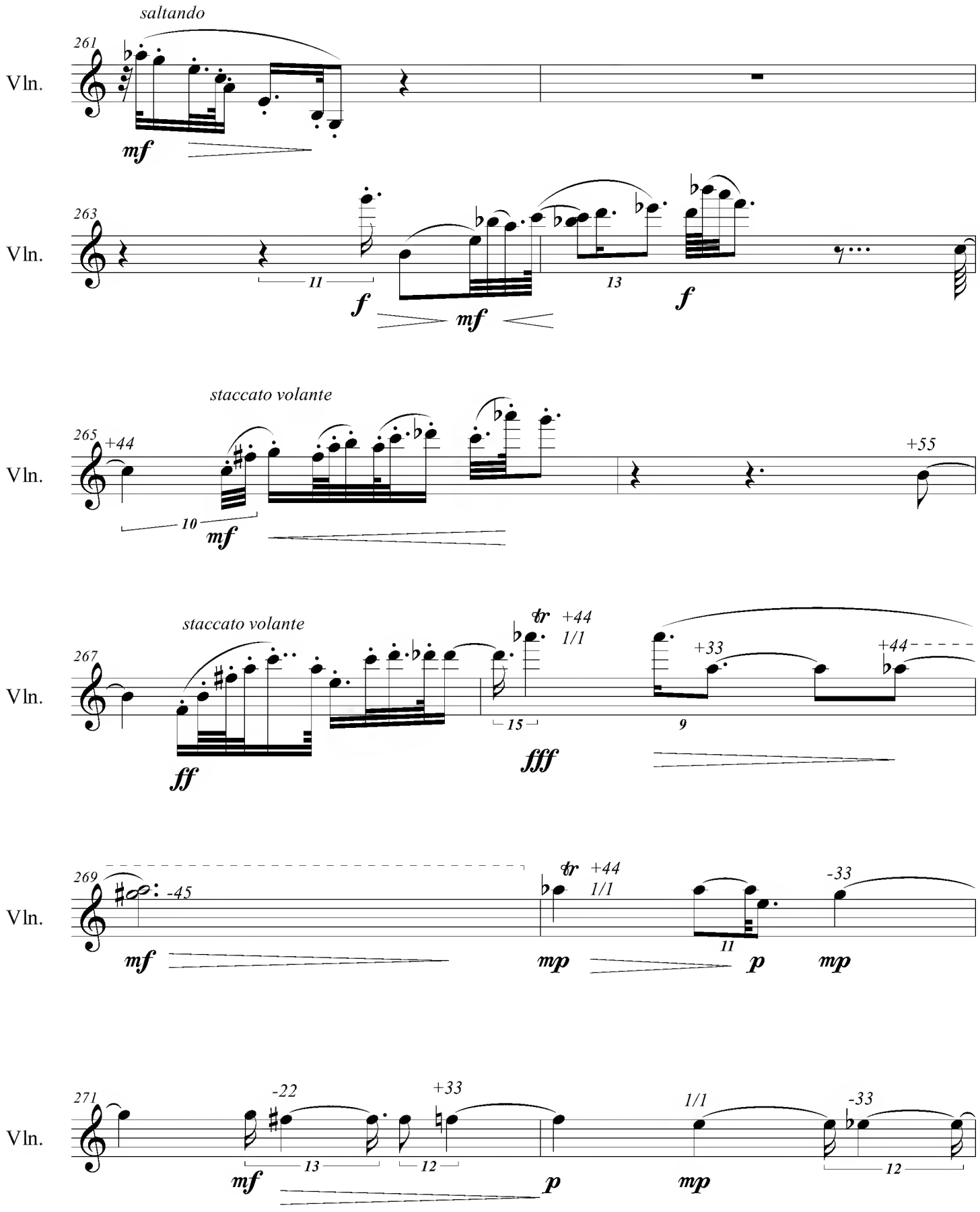

198
Vln.
mf
11
13
15
13
ff
200
Vln.
f
11
5
mf
13
9
5
mp
202
Vln.
9
ff
mf
7
6
staccato volante
+22
204
Vln.
f
ff
15
mf
+55
15
p
+11
+22
206
Vln.
mp
p
+44
+44
mp
208
Vln.
13
ff
-22
13
mf
11
+22

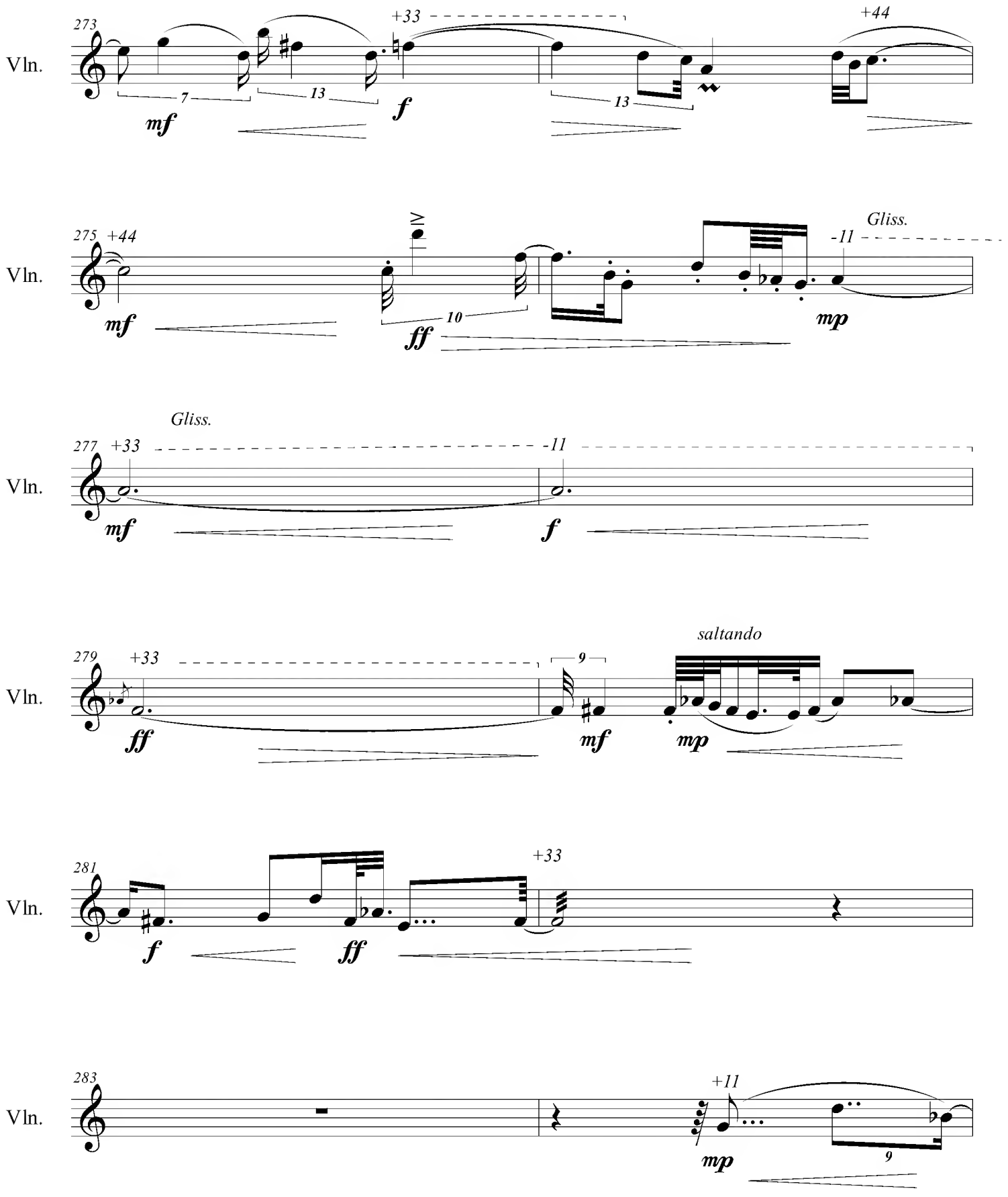

Vln.
210
-11
14
7
6
10
f
212
+44
+44
15
13
mf
fz
+22
10
f
214
+55
7
10
12
15
mf
ff
216
jete
14
9
f
ff
saltando
218
-22
f
mp
sfz
15
220
+44
13
-22
7
-11
+44
-45
f
9
mp
13
10
mf
fff

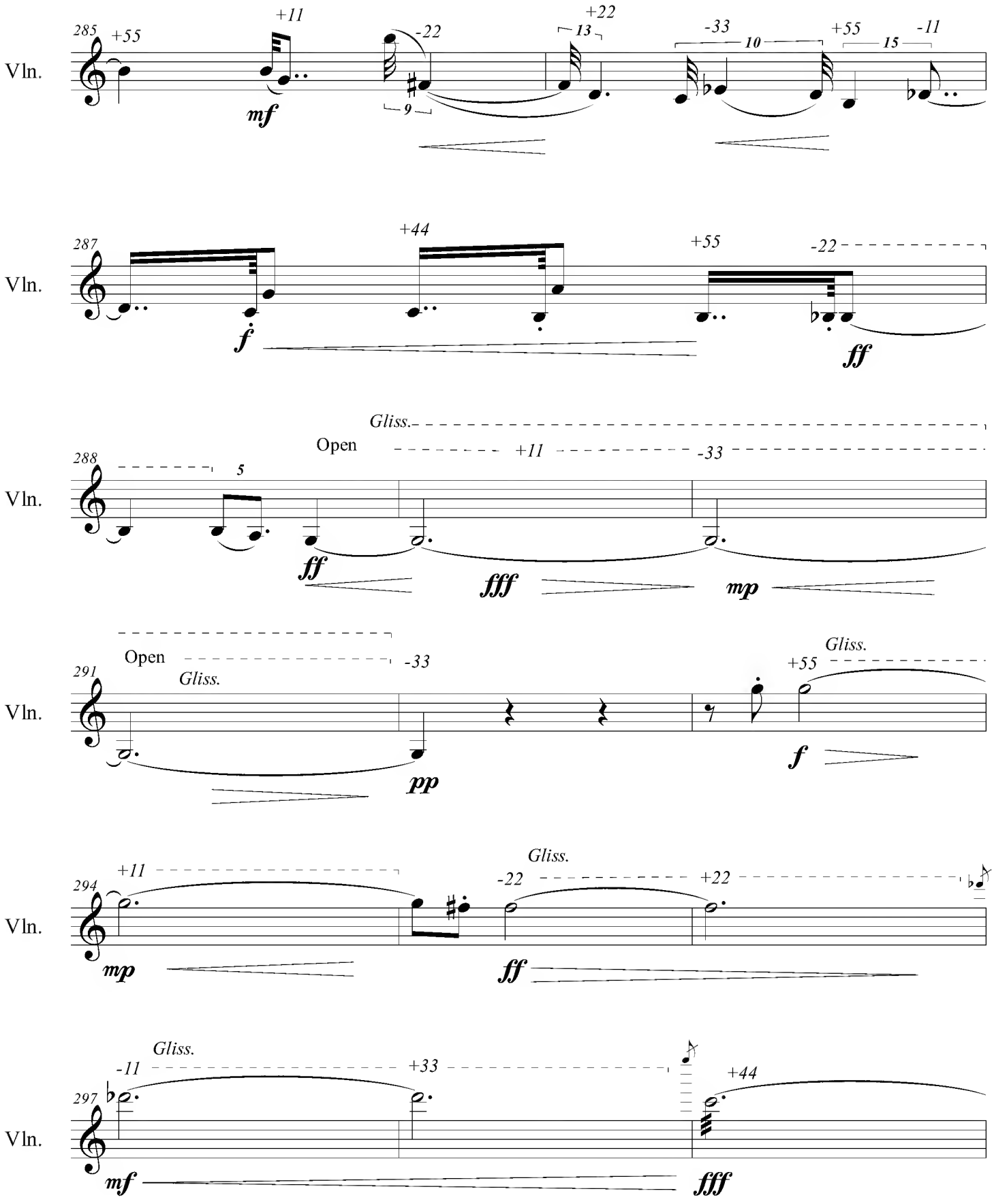

Vln.
222
+22
13
+33
+44
+55
f
5
11
ff
Vln.
224
9
+22
14
mf
7
fz
Vln.
226
+11
5
-22
mf
mp
Vln.
al tallone
228
7
7
-22
-11
f
ff
Vln.
230
+11
+22
+44
+11
9
14
7
f
Vln.
232
+33
10
15
f

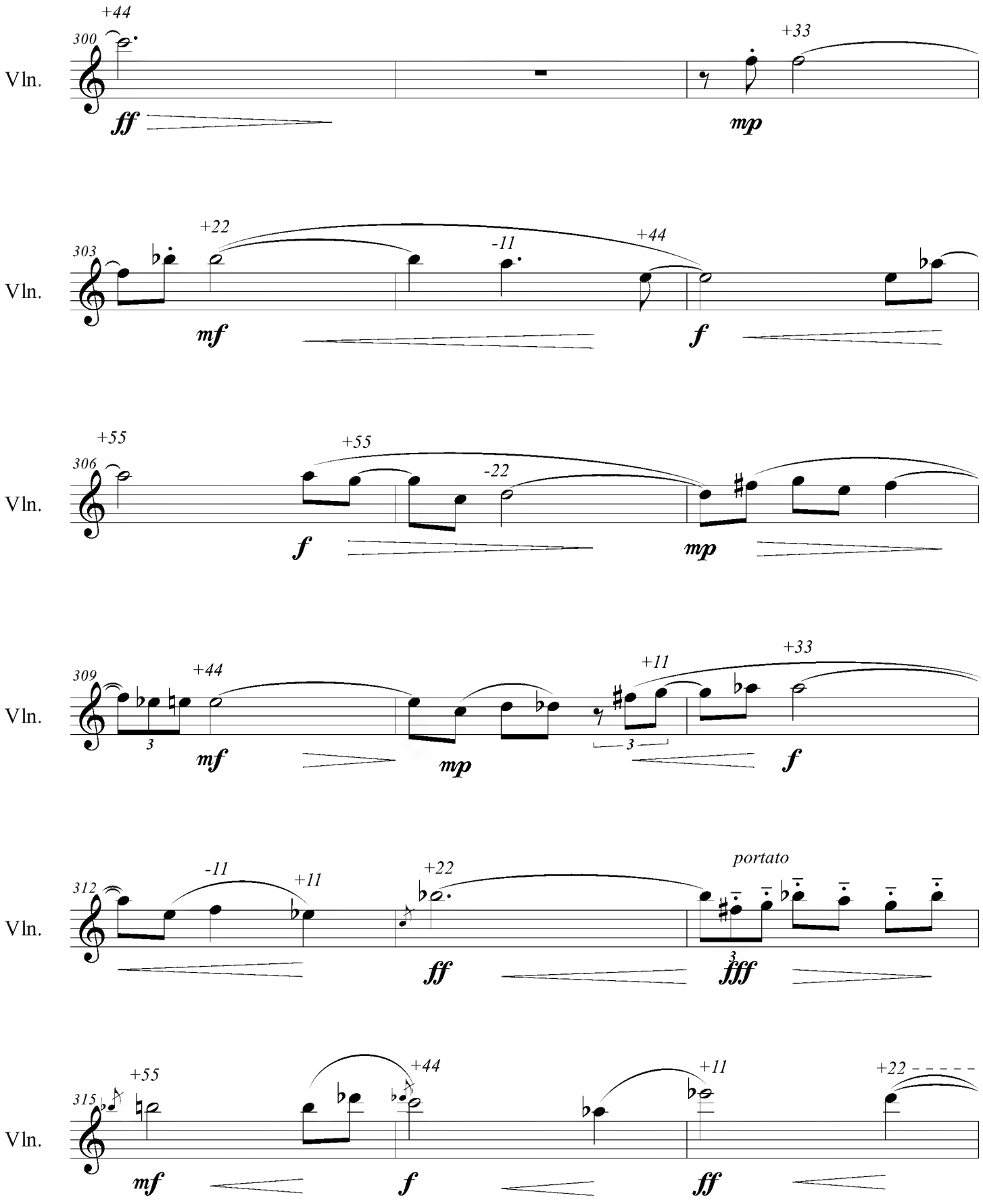

234
Vln.
tr
14
11
mf
mp
236
Vln.
-33
p
mf
238
Vln.
+33
13
+22
f
mf
mp
240
Vln.
11
+55
10
1/1
-33
10
+33
mf
mp
p
243
Vln.
-11
+55
tr
13
11
10
11
-11
+33
tr
mp
mf
f
ff
246
Vln.
+11
+55
tr
7
14
12
f
mp

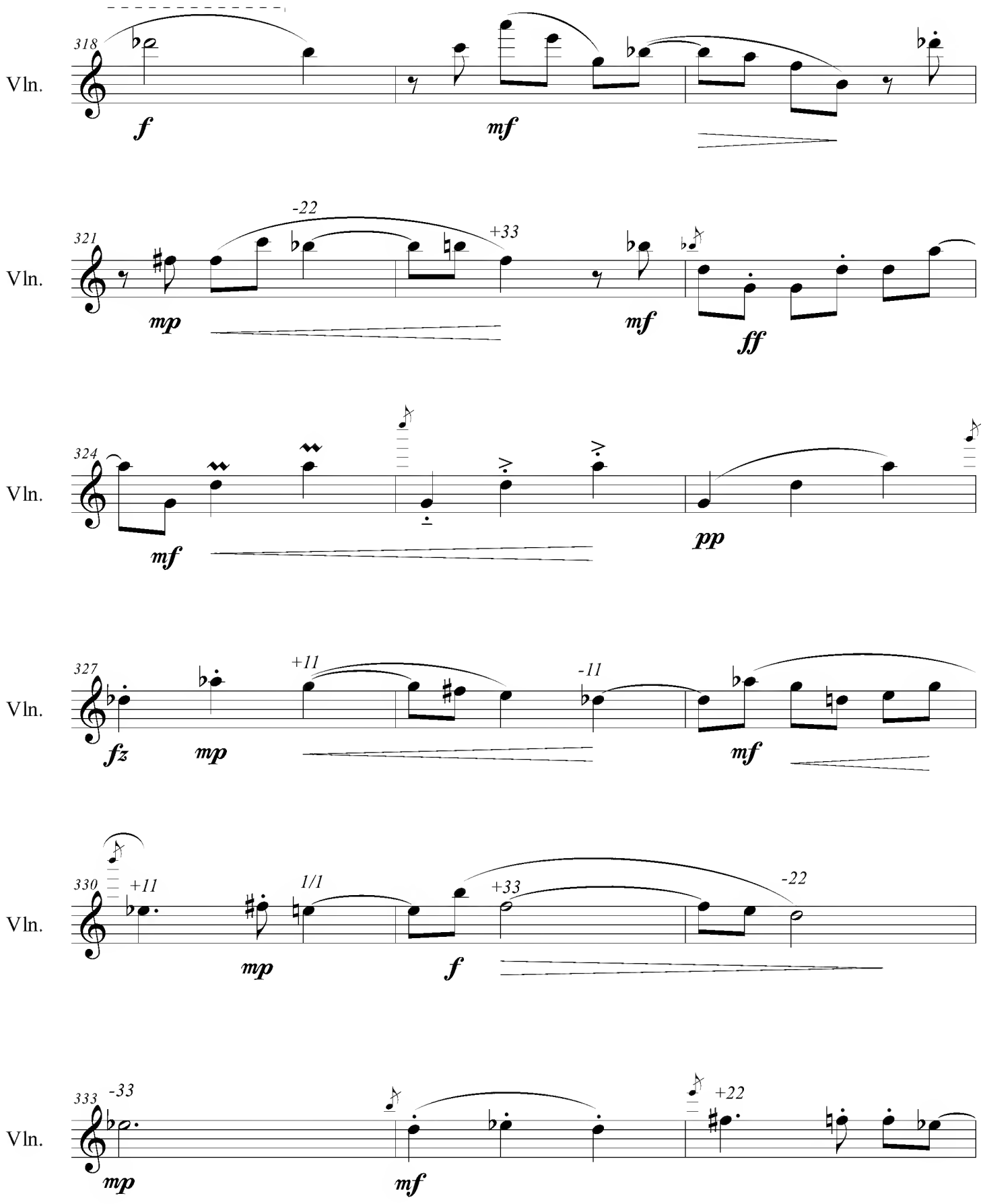

249
Vln.
-22
+22
-11
Open
9
sffz
f
251
Vln.
+22
+55
-22
7
12
12
fff
fffff
14
253
Vln.
-33
-11
13
11
f
sempre f
tr
1/1
+22
11
255
Vln.
+33
10
5
12
+33
+33
13
13
9
257
Vln.
1/1
-45
-45
+33
7
12
-33
7
259
Vln.
+22
12
15

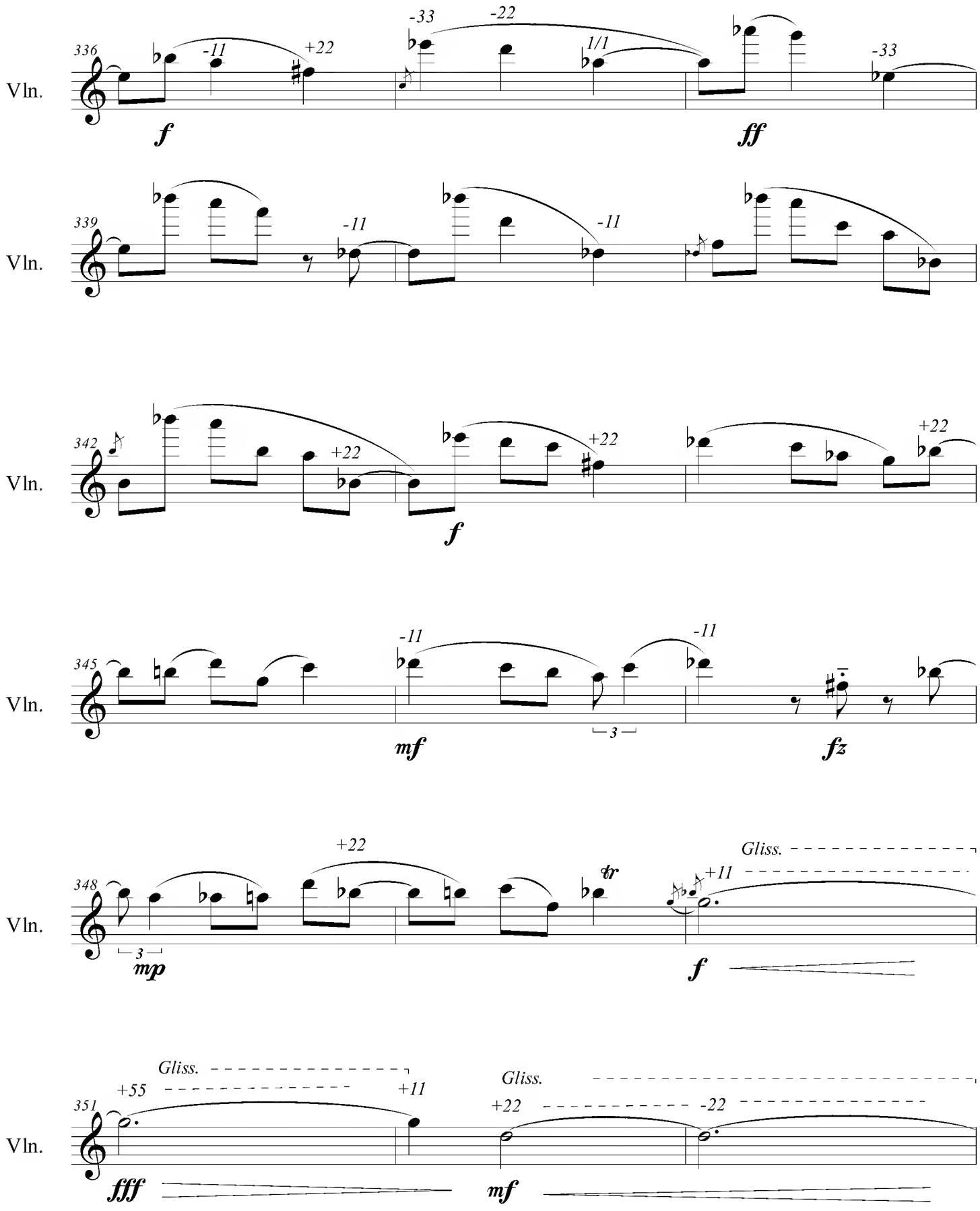

saltando
261
Vln.
mf
263
Vln.
11
f
mf
13
f
staccato volante
265
+44
Vln.
10
mf
+55
staccato volante
267
Vln.
ff
tr
+44
1/1
15
fff
+33
+44
9
269
Vln.
-45
mf
tr
+44
1/1
mp
11
p
-33
mp
271
Vln.
-22
+33
mf
13
12
p
1/1
mp
-33
12

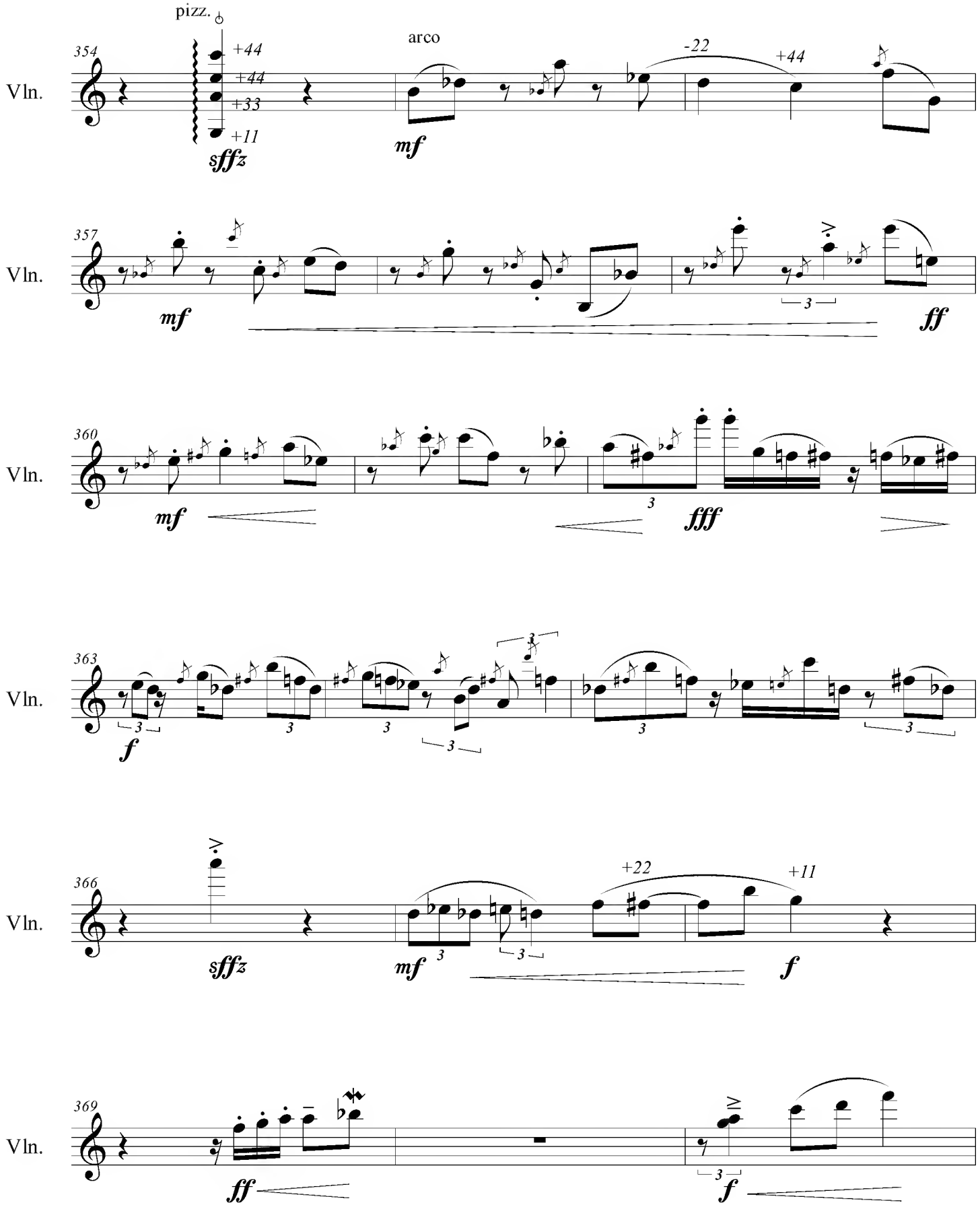

273
Vln.
+33
+44
7
13
13
mf
f
275 +44
Vln.
Gliss.
-11
10
mf
ff
mp
277 +33
Vln.
Gliss.
-11
mf
f
279 +33
Vln.
9
saltando
ff
mf
mp
281
Vln.
+33
f
ff
283
Vln.
+11
9
mp

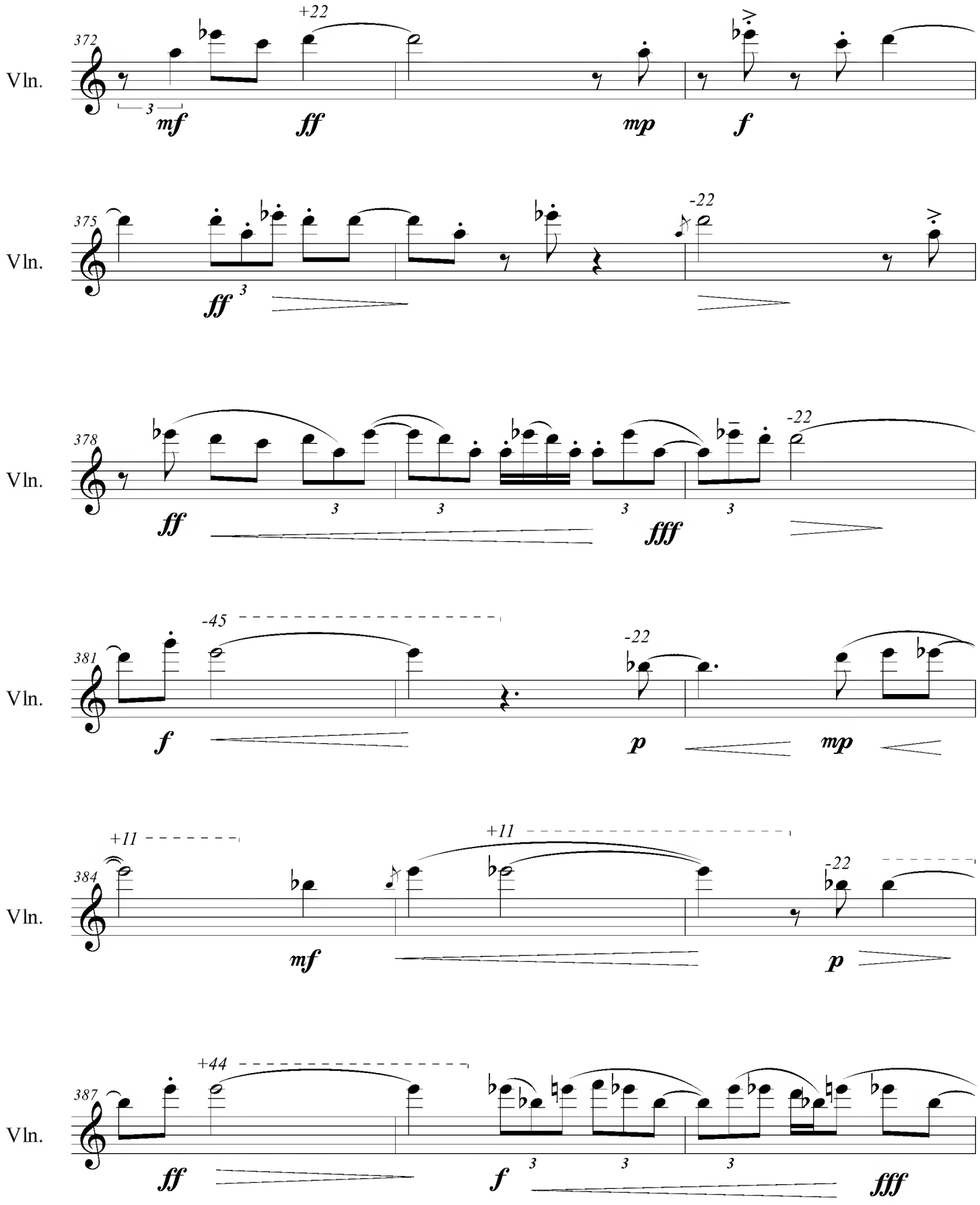

285
Vln.
+55
+11
-22
+22
13
-33
10
+55
15
-11
mf
9
287
Vln.
+44
+55
-22
f
ff
288
Vln.
Gliss.
Open
+11
-33
5
ff
fff
mp
291
Vln.
Open
Gliss.
-33
Gliss.
+55
pp
f
294
Vln.
+11
Gliss.
-22
+22
mp
ff
297
Vln.
Gliss.
-11
+33
+44
mf
fff

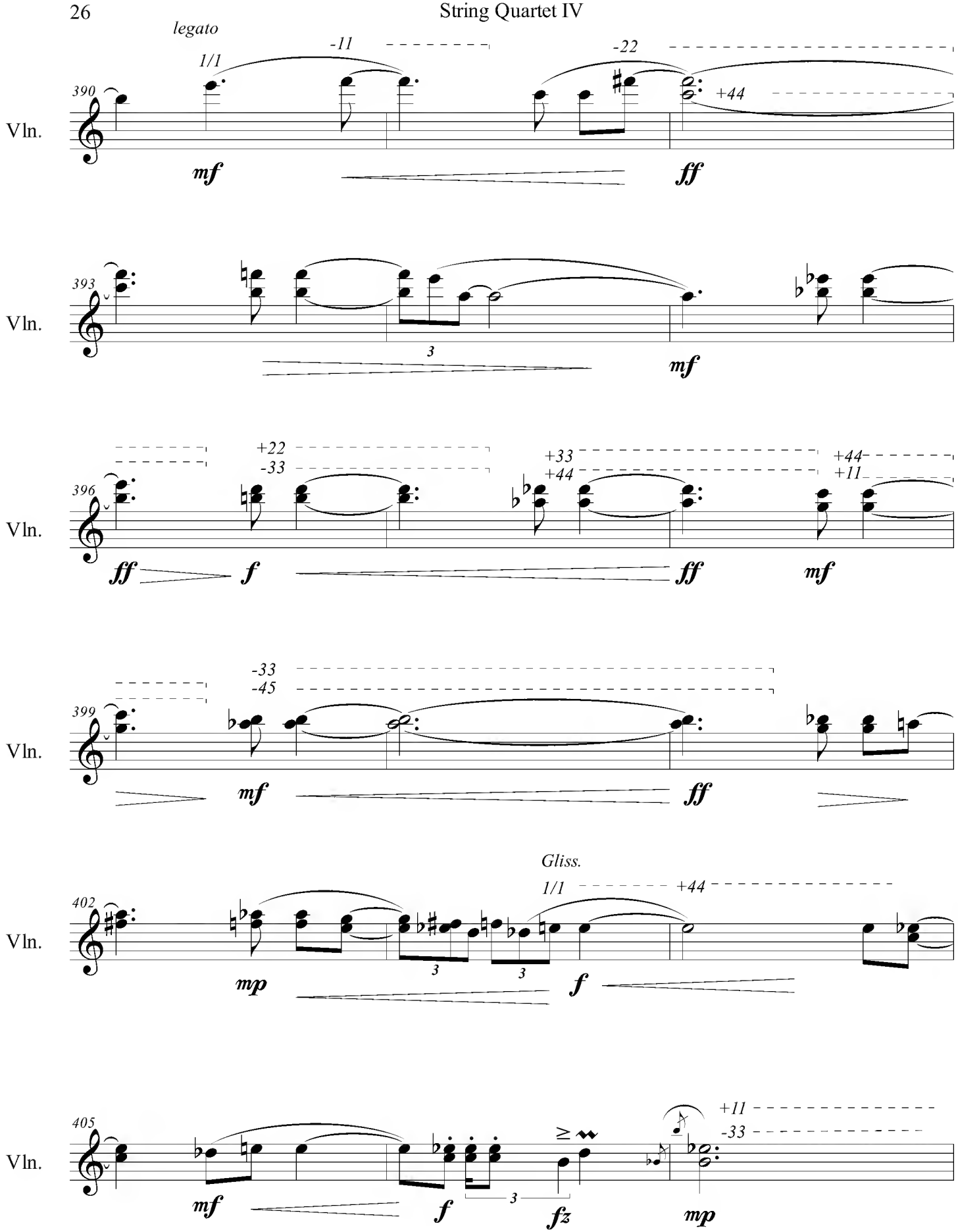

Vln.
300
+44
+33
ff
mp
303
+22
-11
+44
mf
f
306
+55
+55
-22
f
mp
309
+44
+11
+33
3
3
mf
mp
f
312
-11
+11
+22
portato
3
ff
fff
315
+55
+44
+11
+22
mf
f
ff

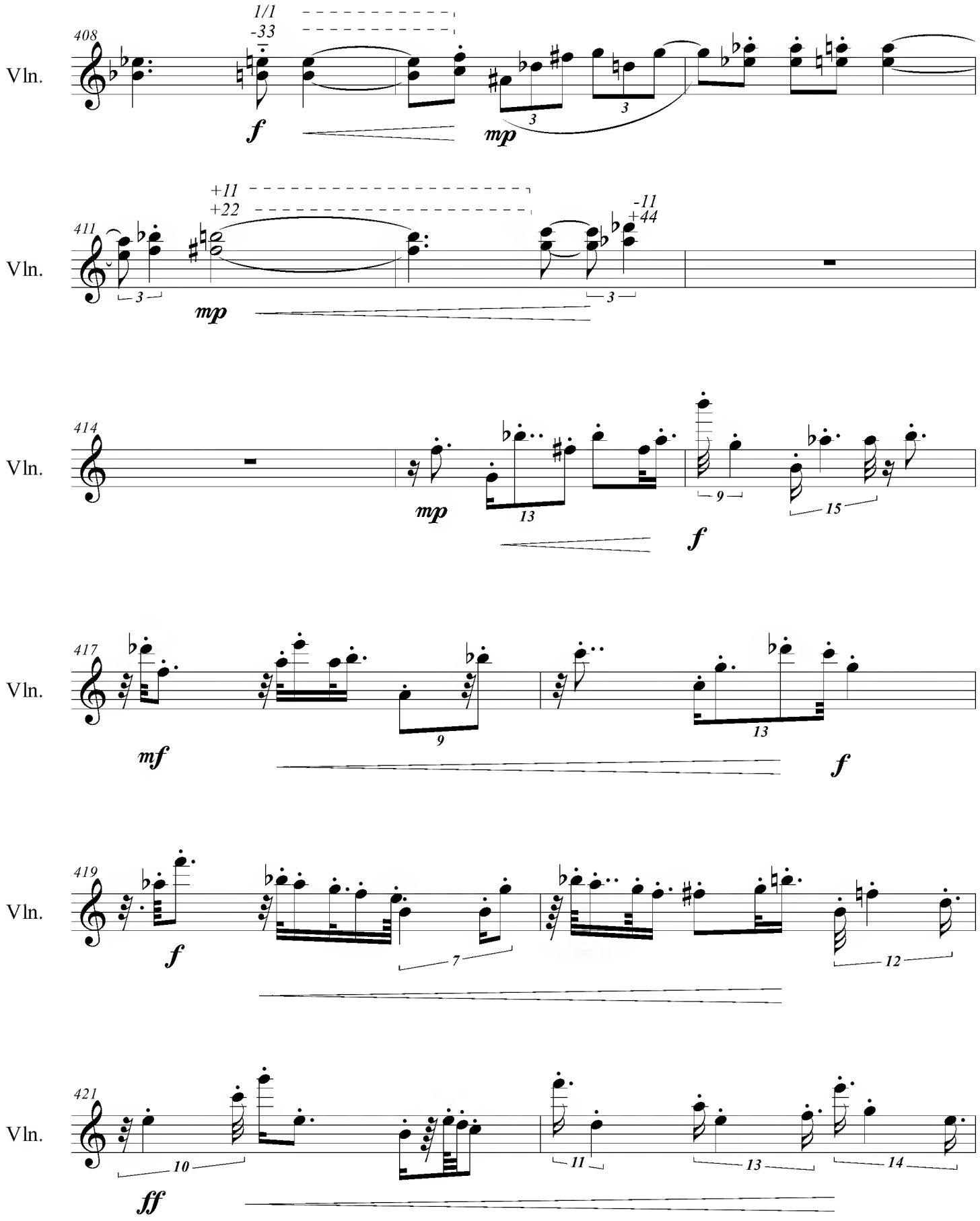

318
Vln.
f
mf
321
-22
+33
Vln.
mp
mf
ff
324
Vln.
mf
pp
327
+11
-11
Vln.
fz
mp
mf
330
+11
1/1
+33
-22
Vln.
mp
f
333
-33
+22
Vln.
mp
mf

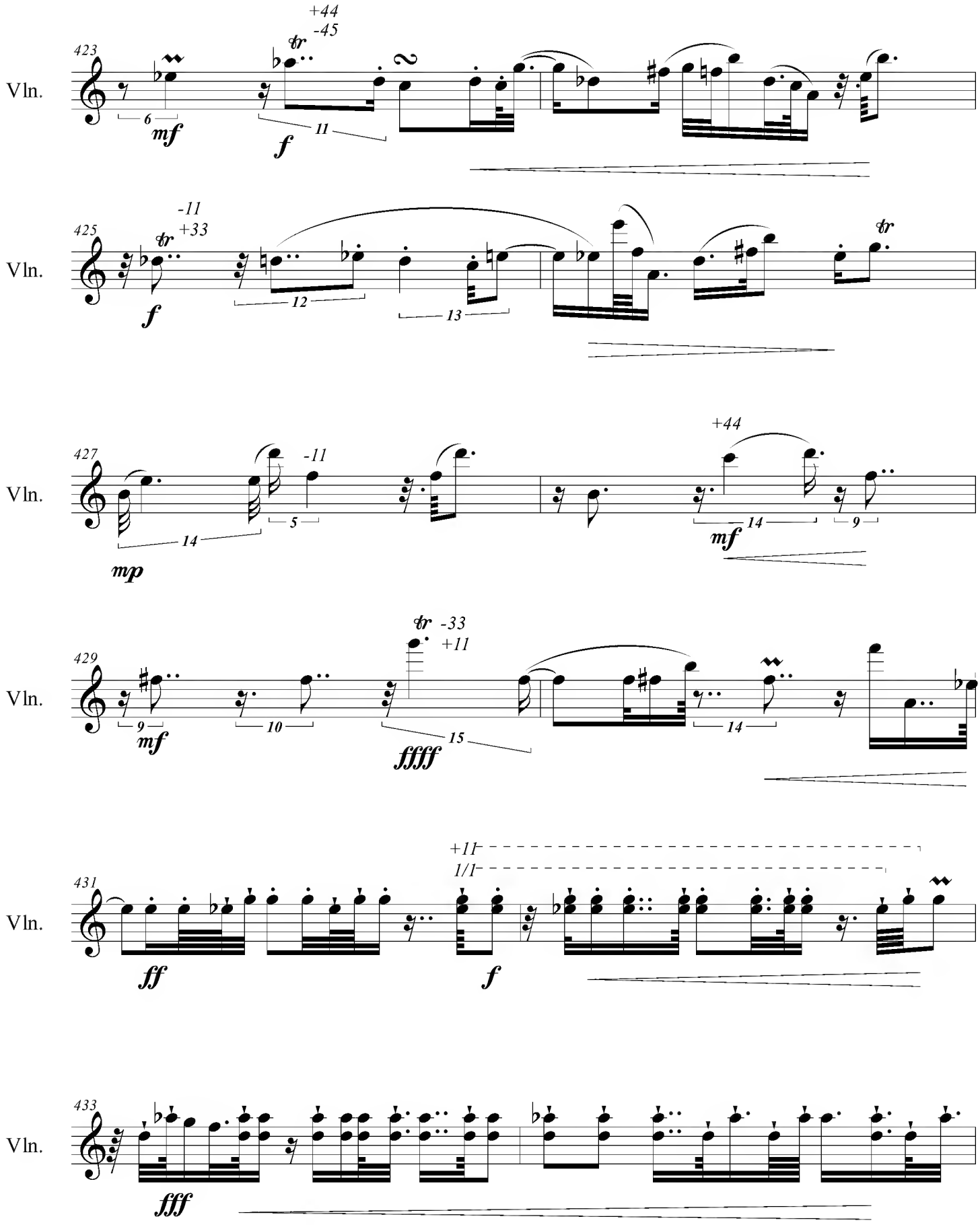

336
Vln.
-11
+22
-33
-22
1/1
-33
f
ff
339
Vln.
-11
-11
342
Vln.
+22
+22
+22
f
345
Vln.
-11
-11
3
mf
fz
348
Vln.
+22
tr
Gliss.
+11
3
mp
f
351
Vln.
Gliss.
+55
+11
Gliss.
+22
-22
fff
mf

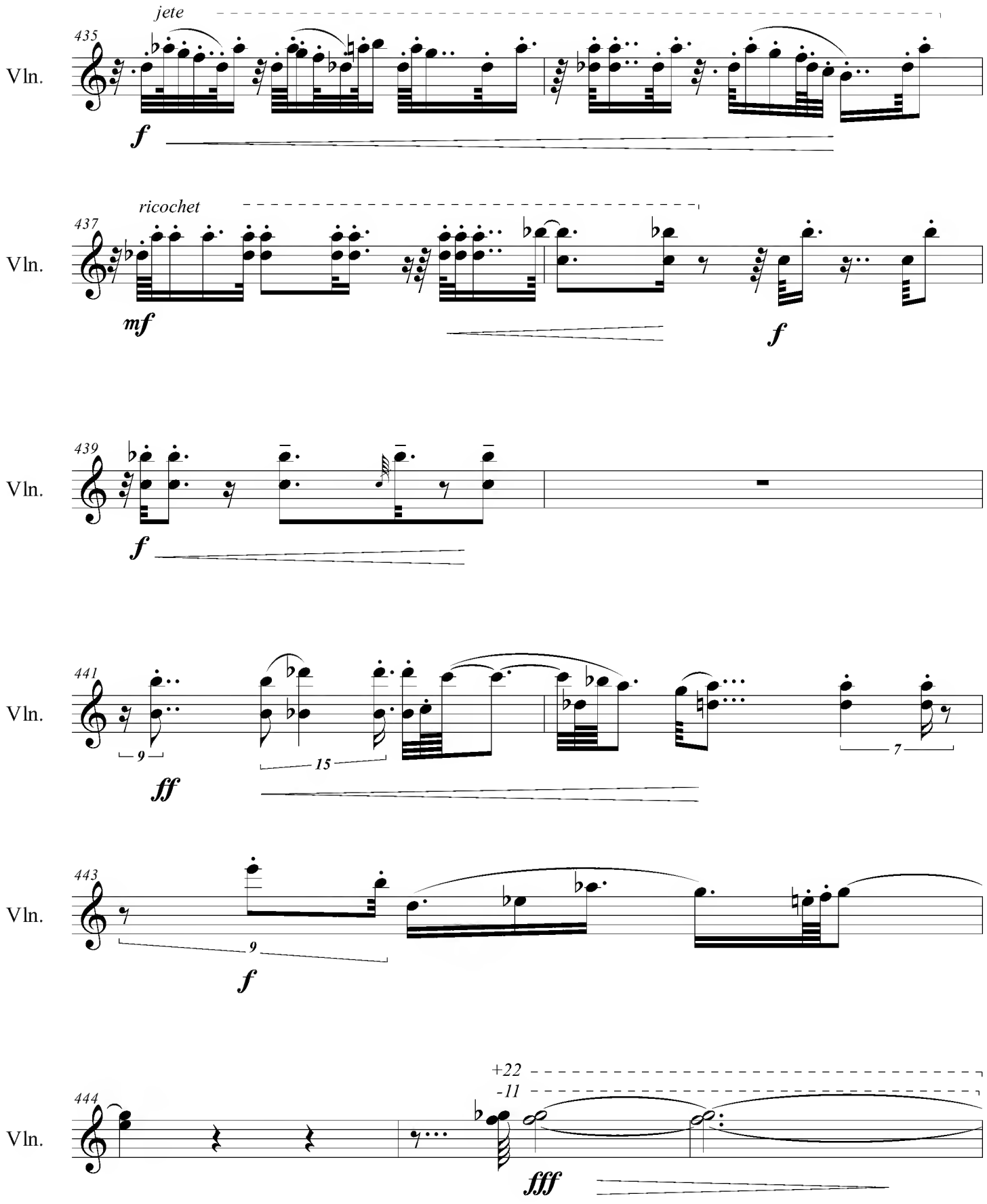

pizz.
arco
354
Vln.
+44
+44
+33
+11
sffz
mf
-22
+44
357
mf
3
ff
360
mf
3
fff
363
3
f
366
sffz
mf
+22
+11
f
369
ff
f

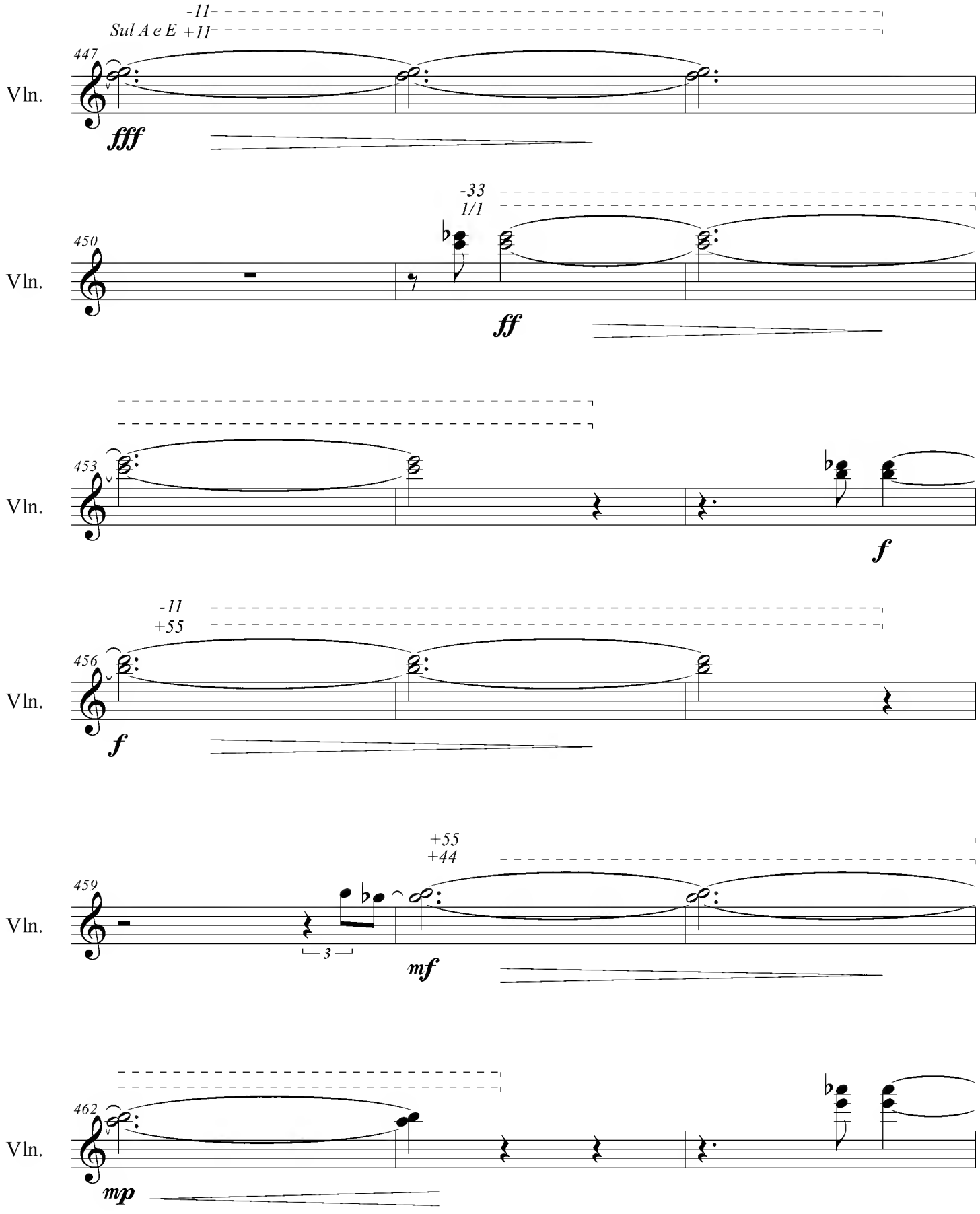

Vln.
372
+22
3
mf
ff
mp
f
Vln.
375
-22
ff
3
Vln.
378
-22
ff
3
3
3
3
fff
Vln.
381
-45
-22
f
p
mp
Vln.
384
+11
+11
-22
mf
p
Vln.
387
+44
ff
f
3
3
3
fff

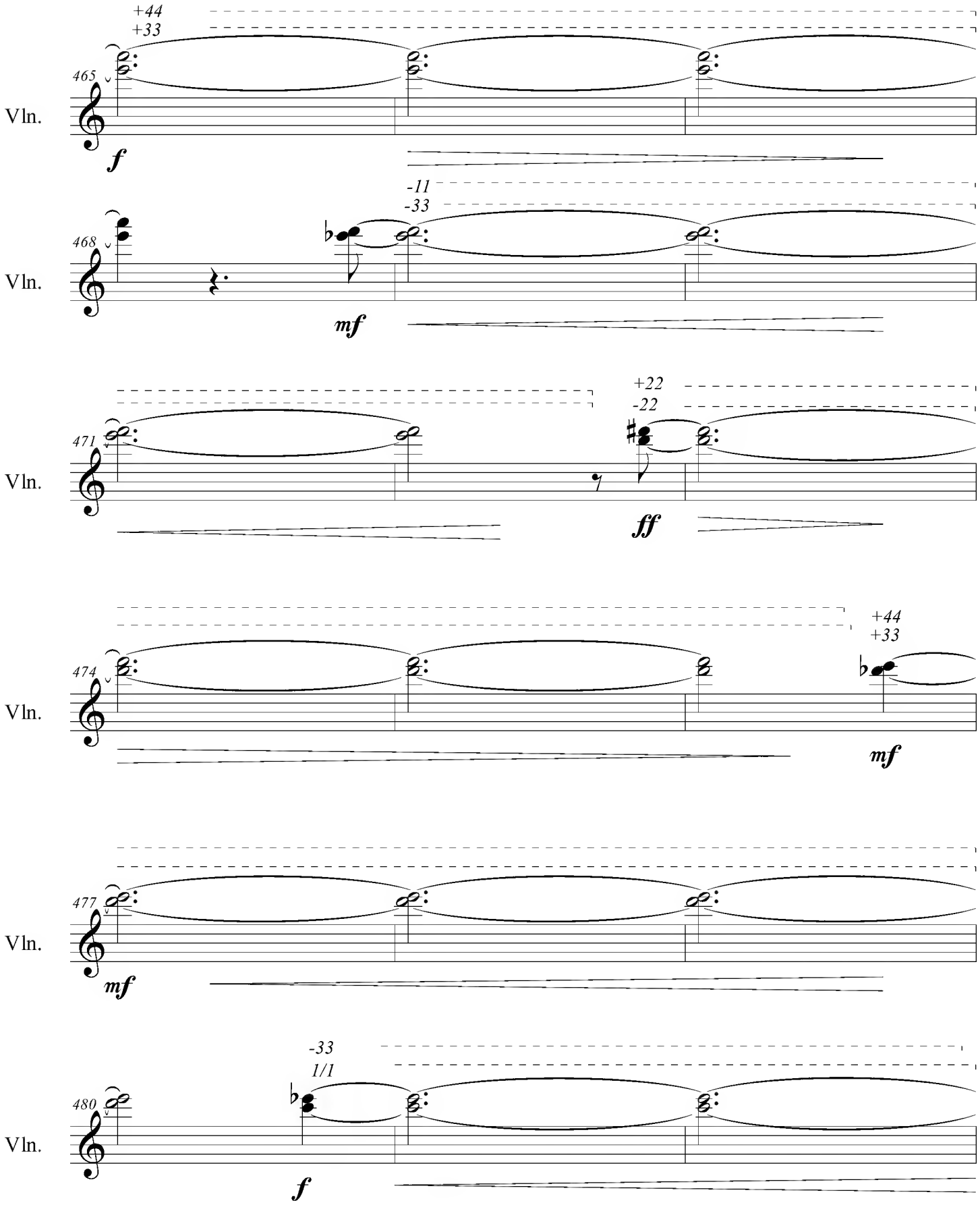

legato
1/1
-11
-22
390
+44
Vln.
mf
ff
393
3
mf
396
+22
-33
+33
+44
+44
+11
ff
f
ff
mf
399
-33
-45
mf
ff
Gliss.
1/1
+44
402
3
3
mp
f
405
+11
-33
mf
f
3
fz
mp

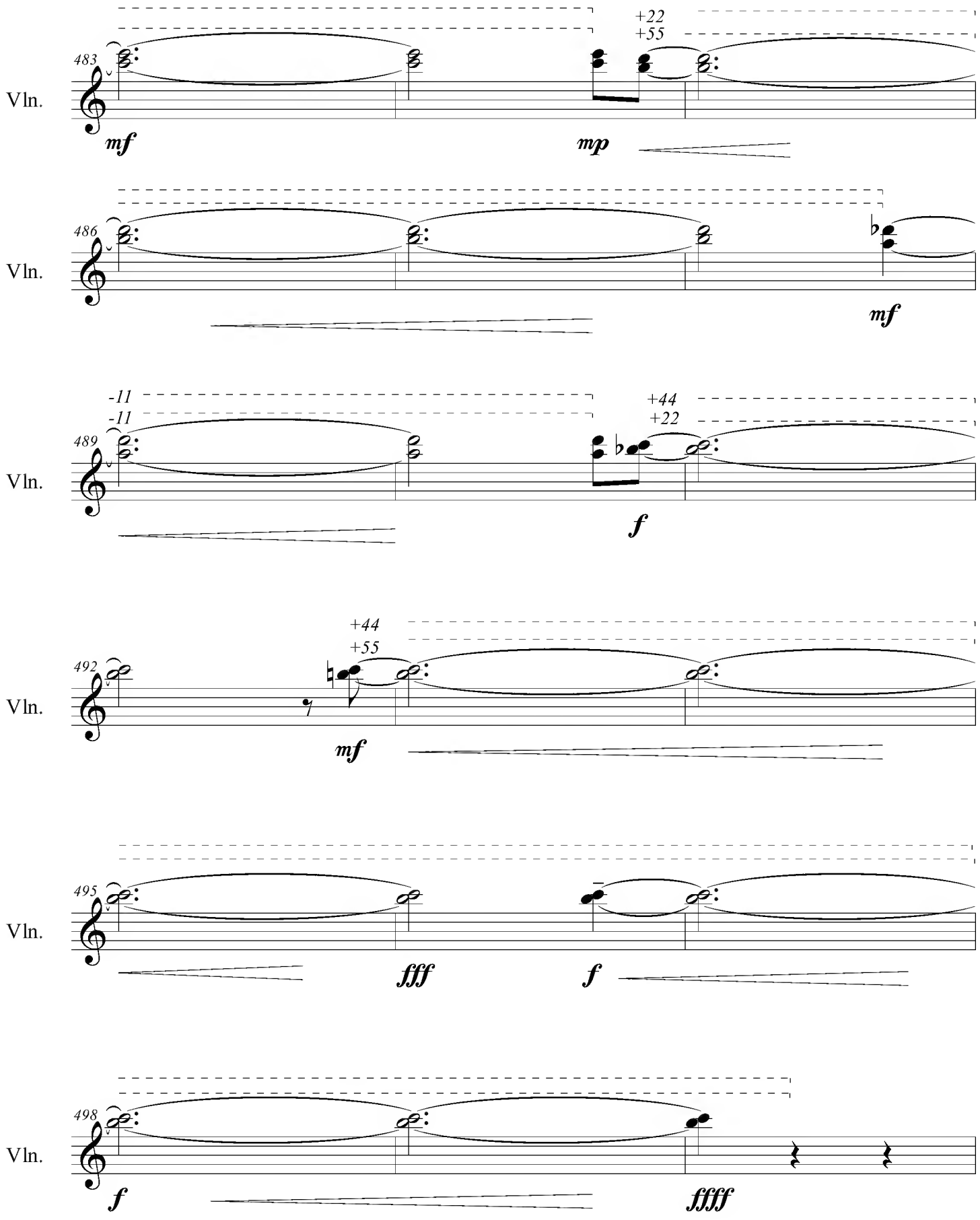

408
Vln.
1/1
-33
f
mp
411
Vln.
+11
+22
-11
+44
mp
414
Vln.
mp
f
417
Vln.
mf
f
419
Vln.
f
421
Vln.
ff

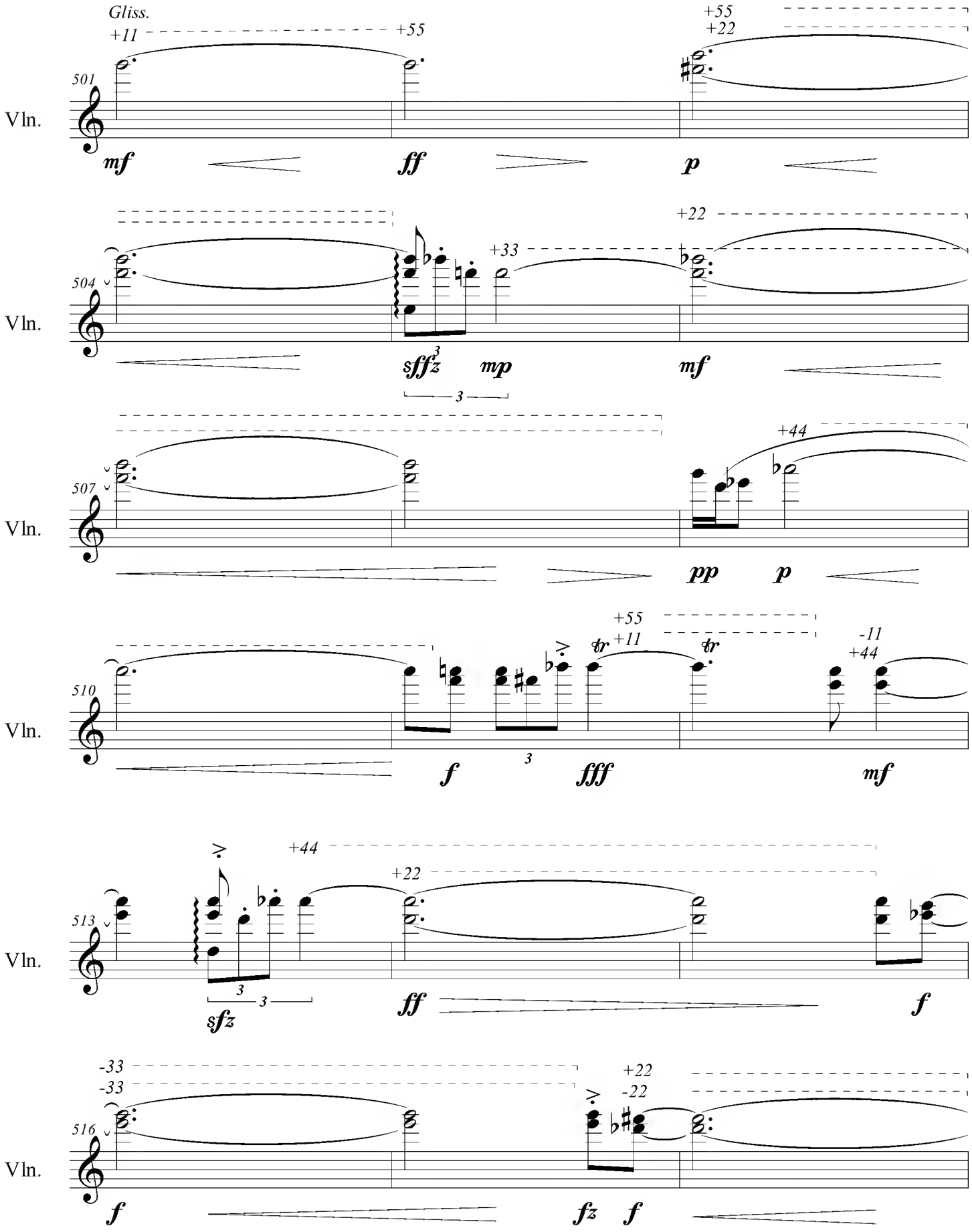

Vln.
423
+44
-45
tr
6
mf
11
f
Vln.
425
-11
+33
tr
f
12
13
tr
Vln.
427
-11
+44
14
5
mp
14
9
mf
Vln.
429
tr
-33
+11
9
mf
10
15
ffff
14
Vln.
431
+11
1/1
ff
f
Vln.
433
fff

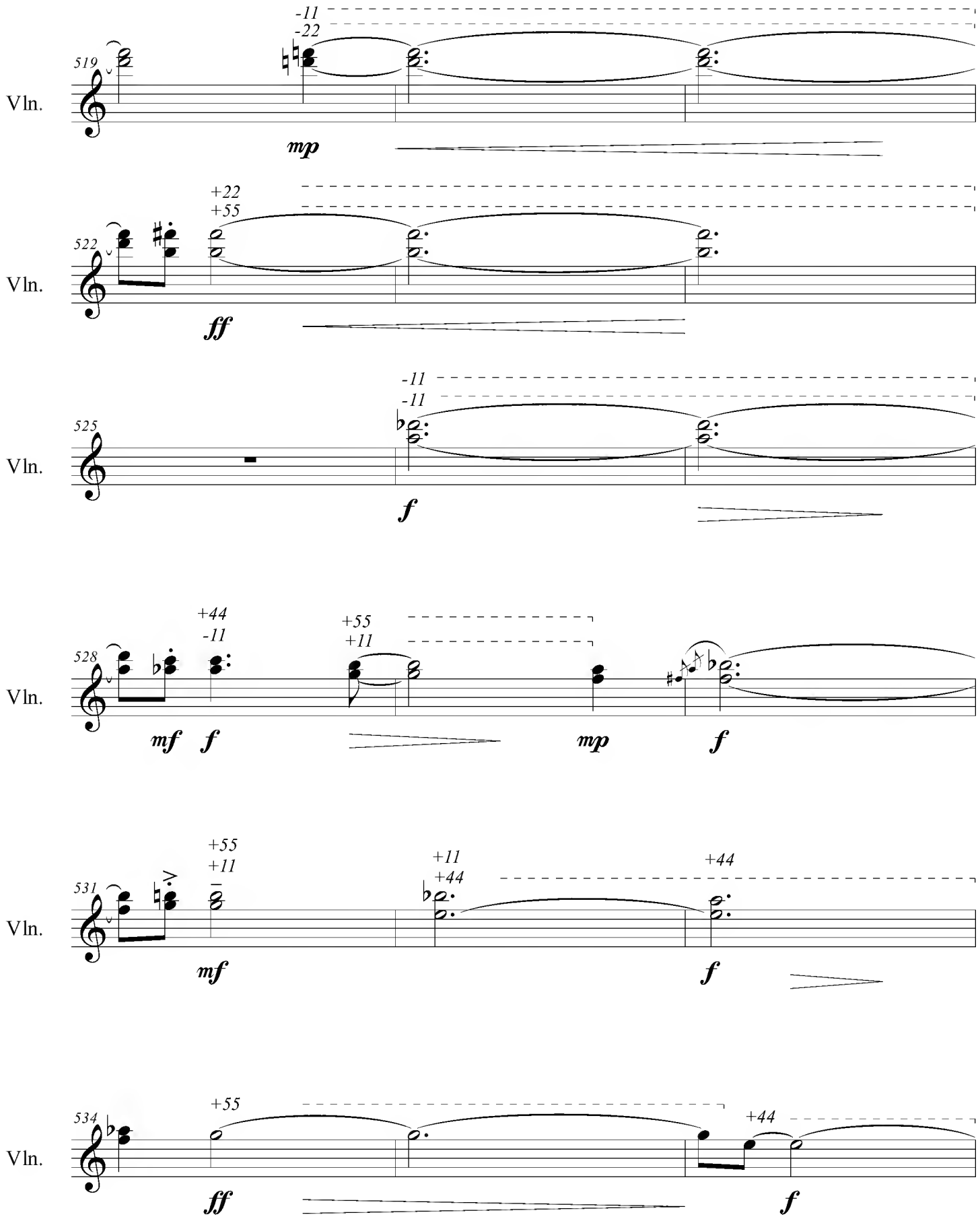

jete
435
Vln.
f
ricochet
437
Vln.
mf
f
439
Vln.
f
441
Vln.
9
15
7
ff
443
Vln.
9
f
444
Vln.
+22
-11
fff

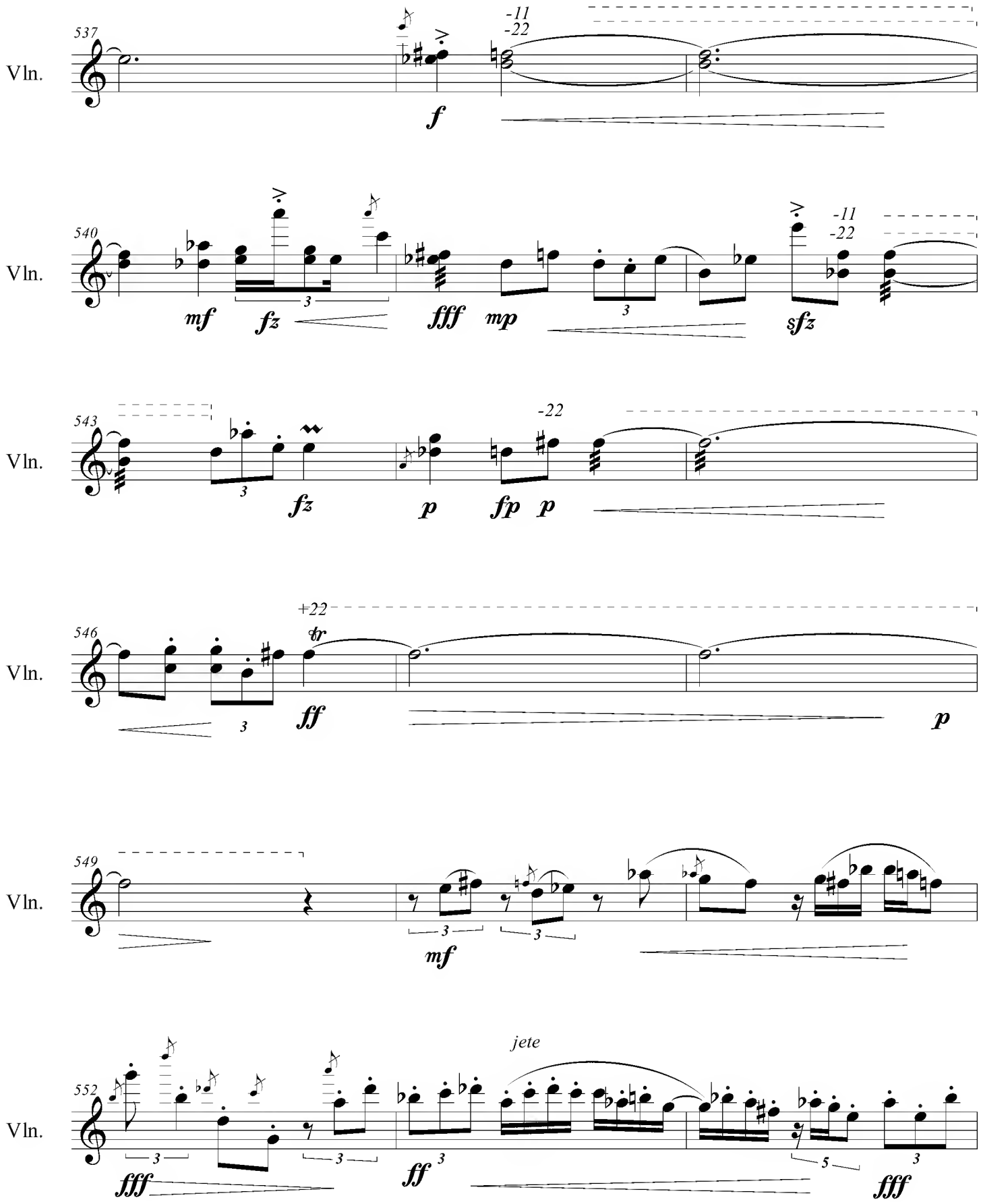

-11
Sul A e E +11
447
Vln.
fff
-33
1/1
450
Vln.
ff
453
Vln.
f
-11
+55
456
Vln.
f
+55
+44
459
Vln.
3
mf
462
Vln.
mp

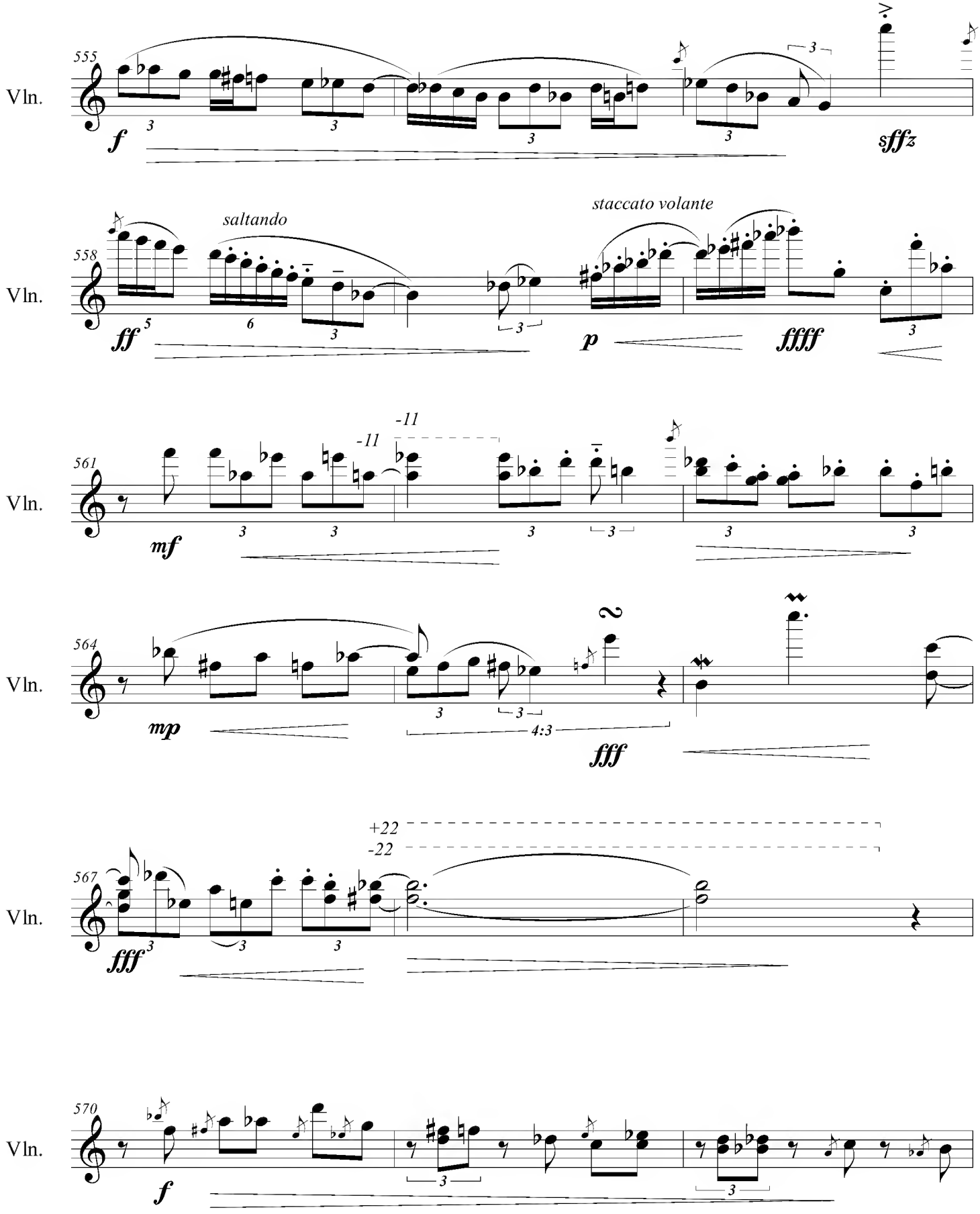

+44
+33
465
Vln.
f
-11
-33
468
Vln.
mf
+22
-22
471
Vln.
ff
+44
+33
474
Vln.
mf
477
Vln.
mf
-33
1/1
480
Vln.
f

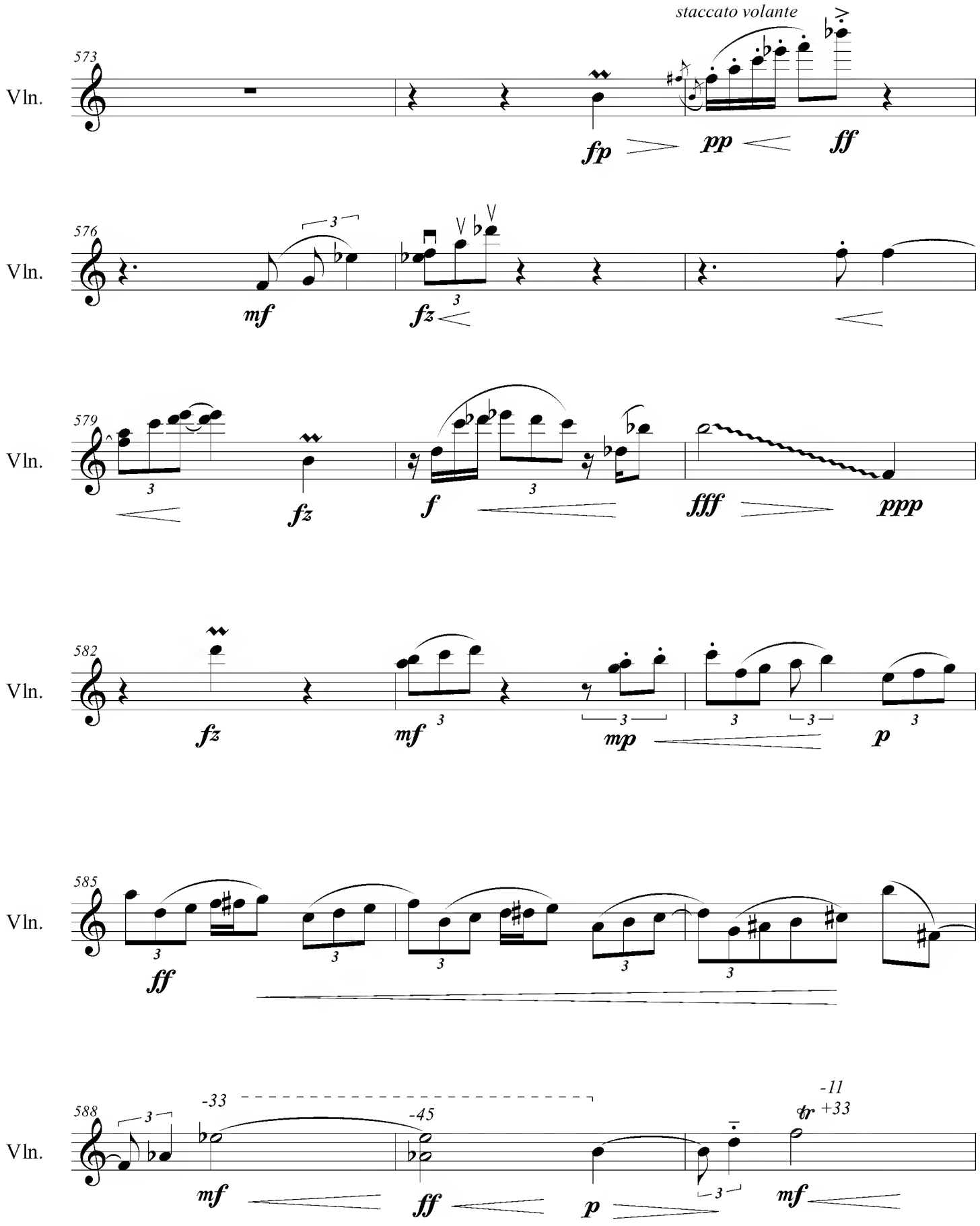

Vln.
483
+22
+55
mf
mp
Vln.
486
mf
Vln.
489
-11
-11
+44
+22
f
Vln.
492
+44
+55
mf
Vln.
495
fff
f
Vln.
498
f
ffff

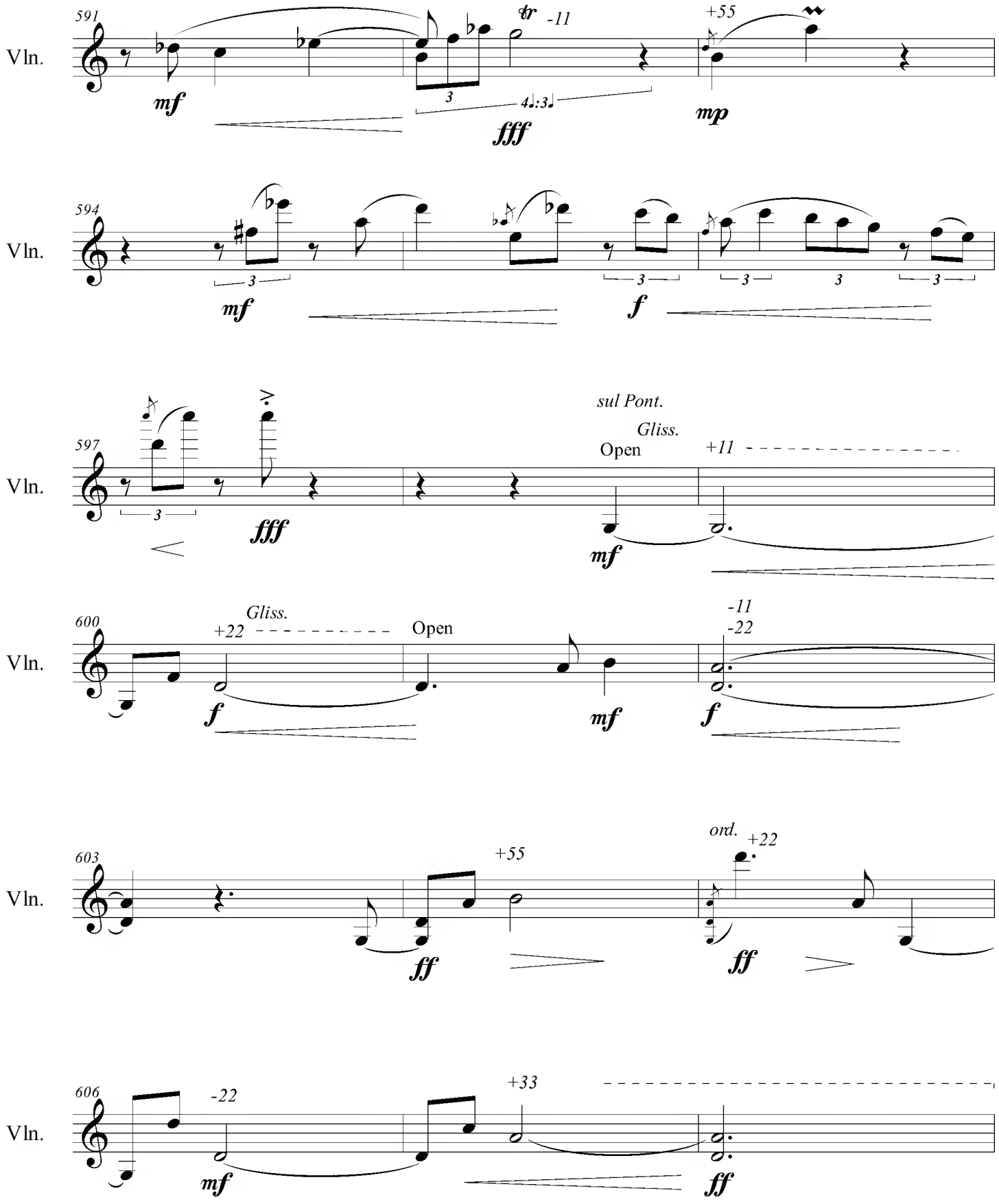

Gliss.
+11
+55
501
Vln.
mf
ff
+55
+22
p
504
Vln.
sffz
mp
+33
+22
mf
3
507
Vln.
pp
p
+44
510
Vln.
f
fff
+55
+11
tr
tr
-11
+44
mf
3
513
Vln.
sfz
ff
+44
+22
f
3
3
516
Vln.
f
fz
f
-33
-33
+22
-22

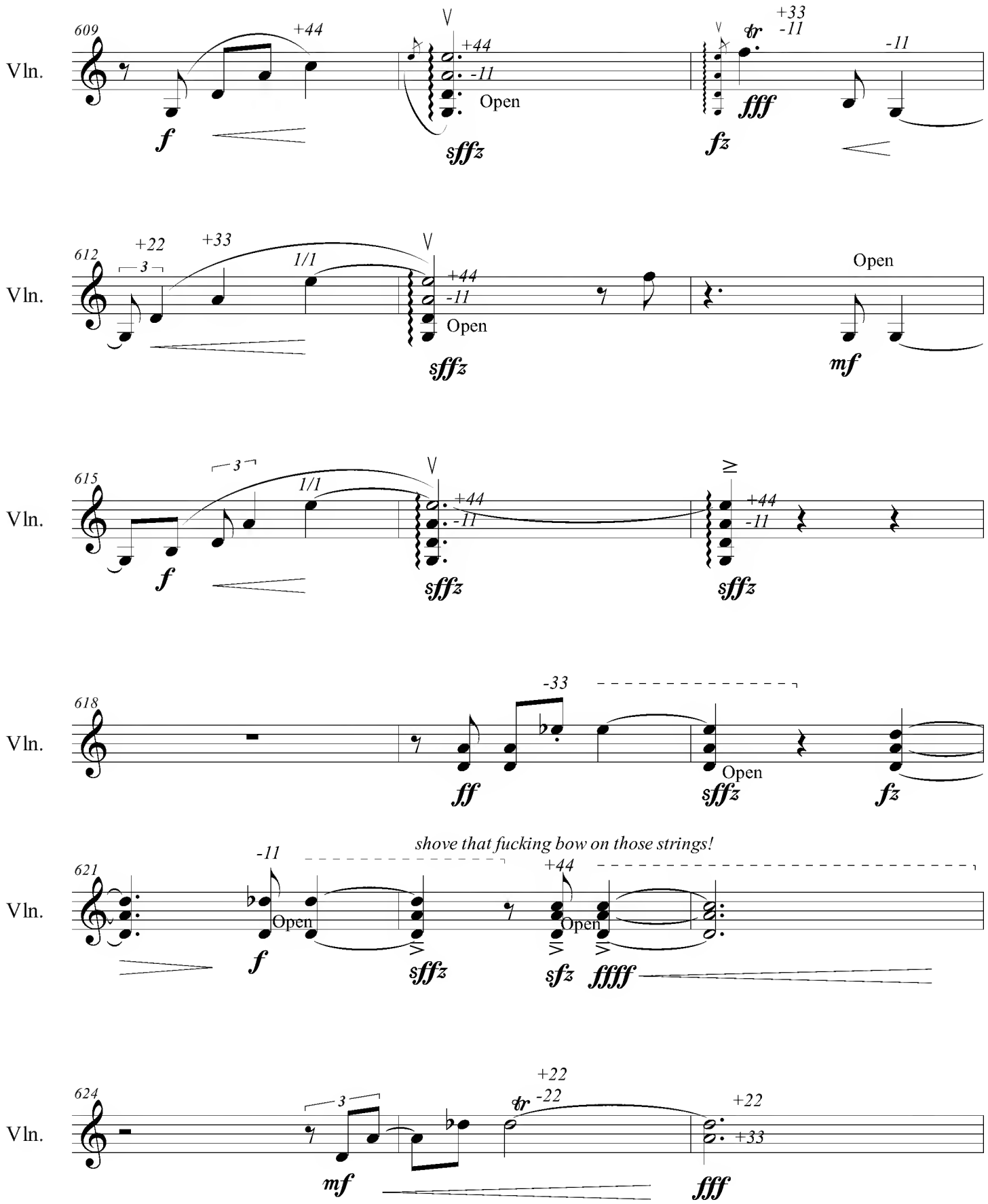

519
-11
-22
Vln.
mp
522
+22
+55
Vln.
ff
525
-11
-11
Vln.
f
528
+44
-11
+55
+11
Vln.
mf
f
mp
f
531
+55
+11
+11
+44
+44
Vln.
mf
f
534
+55
+44
Vln.
ff
f

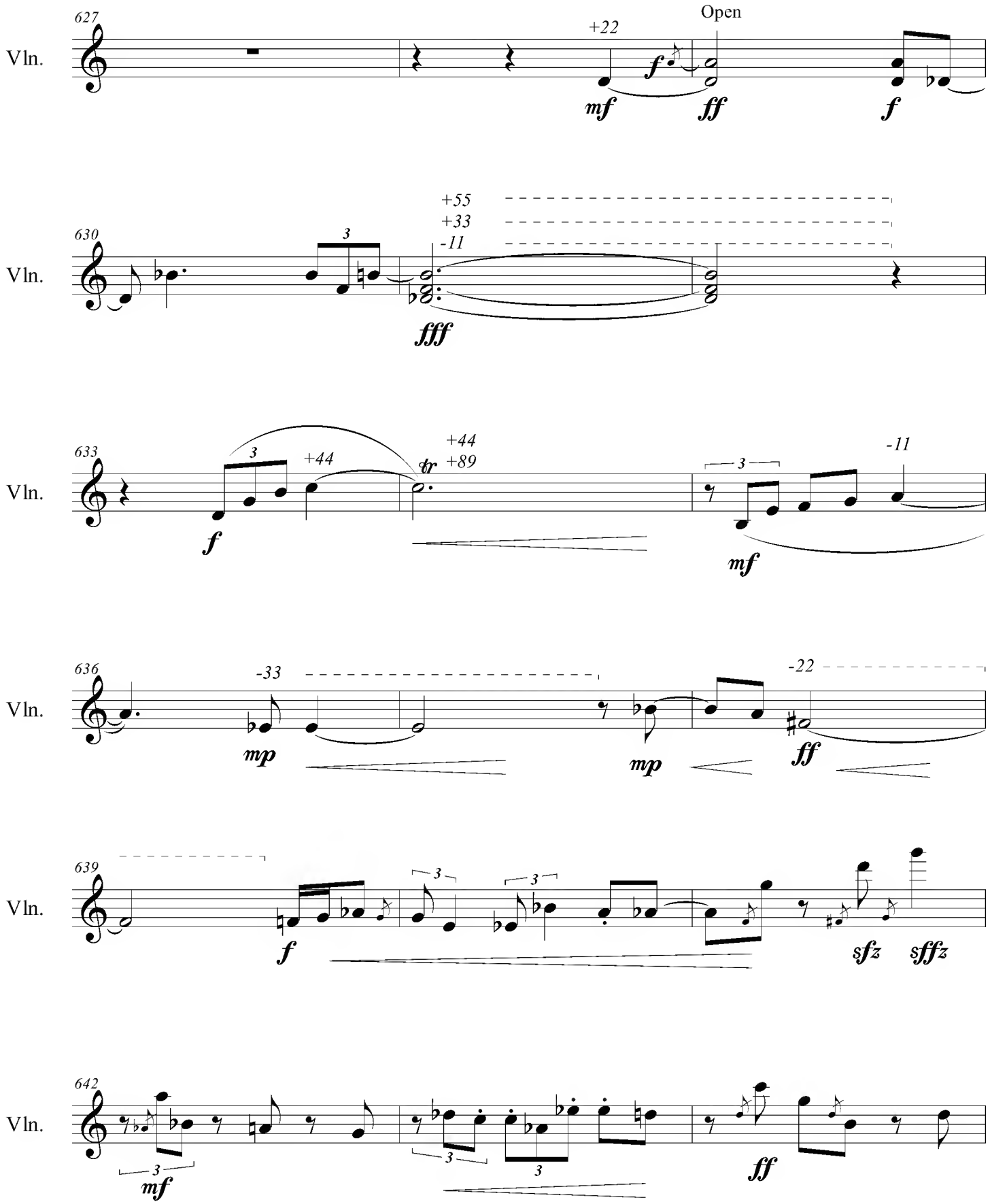

537
Vln.
-11
-22
f
540
Vln.
mf
fz
fff
mp
sfz
-11
-22
543
Vln.
fz
p
fp
p
-22
546
Vln.
+22
tr
ff
p
549
Vln.
mf
552
Vln.
jete
fff
ff
fff

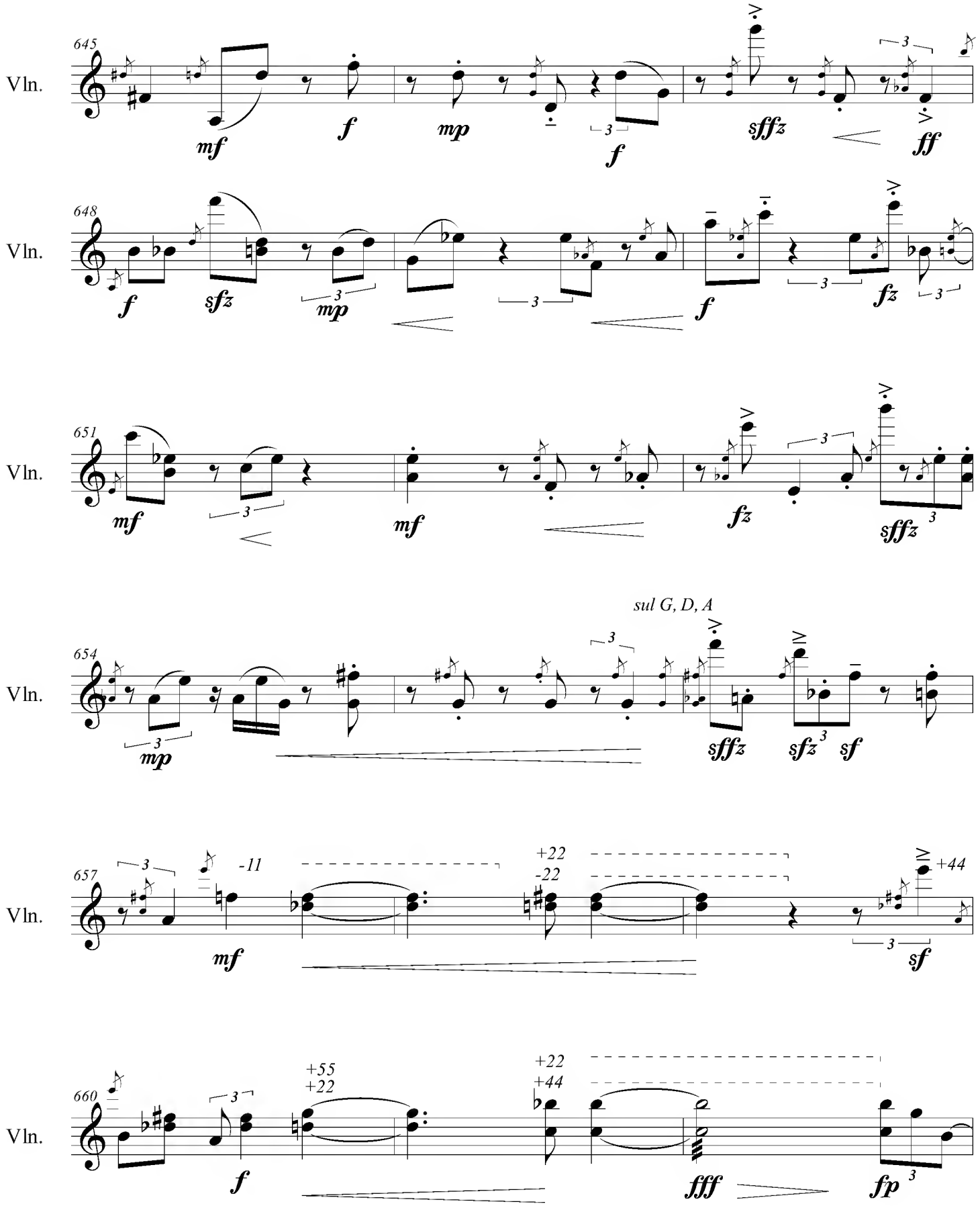

555
Vln.
f
sffz
558
saltando
staccato volante
ff
p
ffff
561
-11
-11
mf
564
mp
4:3
fff
567
+22
-22
fff
570
f

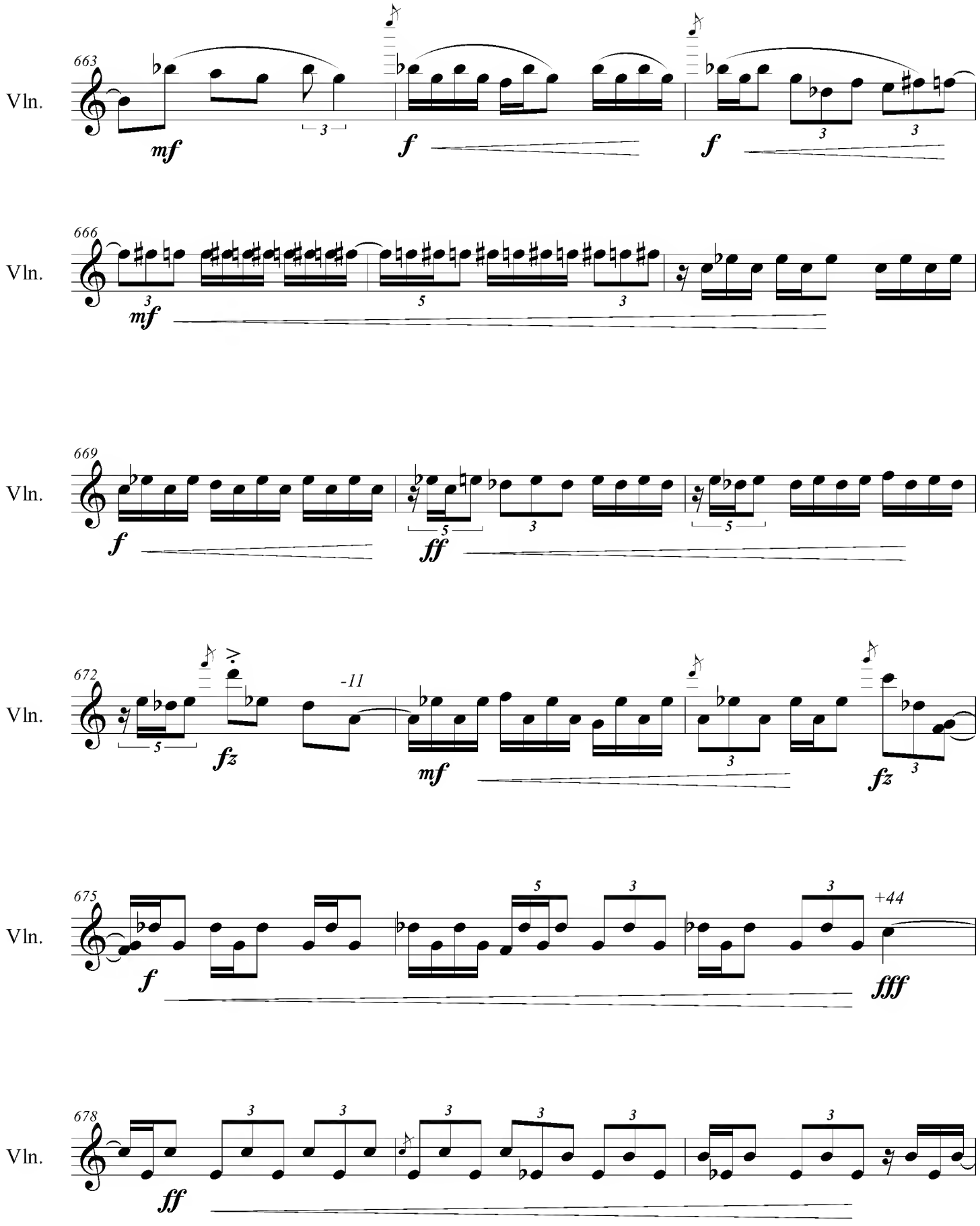

staccato volante
573
Vln.
fp
pp
ff
576
Vln.
mf
fz
579
Vln.
fz
f
fff
ppp
582
Vln.
fz
mf
mp
p
585
Vln.
ff
588
Vln.
-33
-45
-11
+33
tr
mf
ff
p
mf

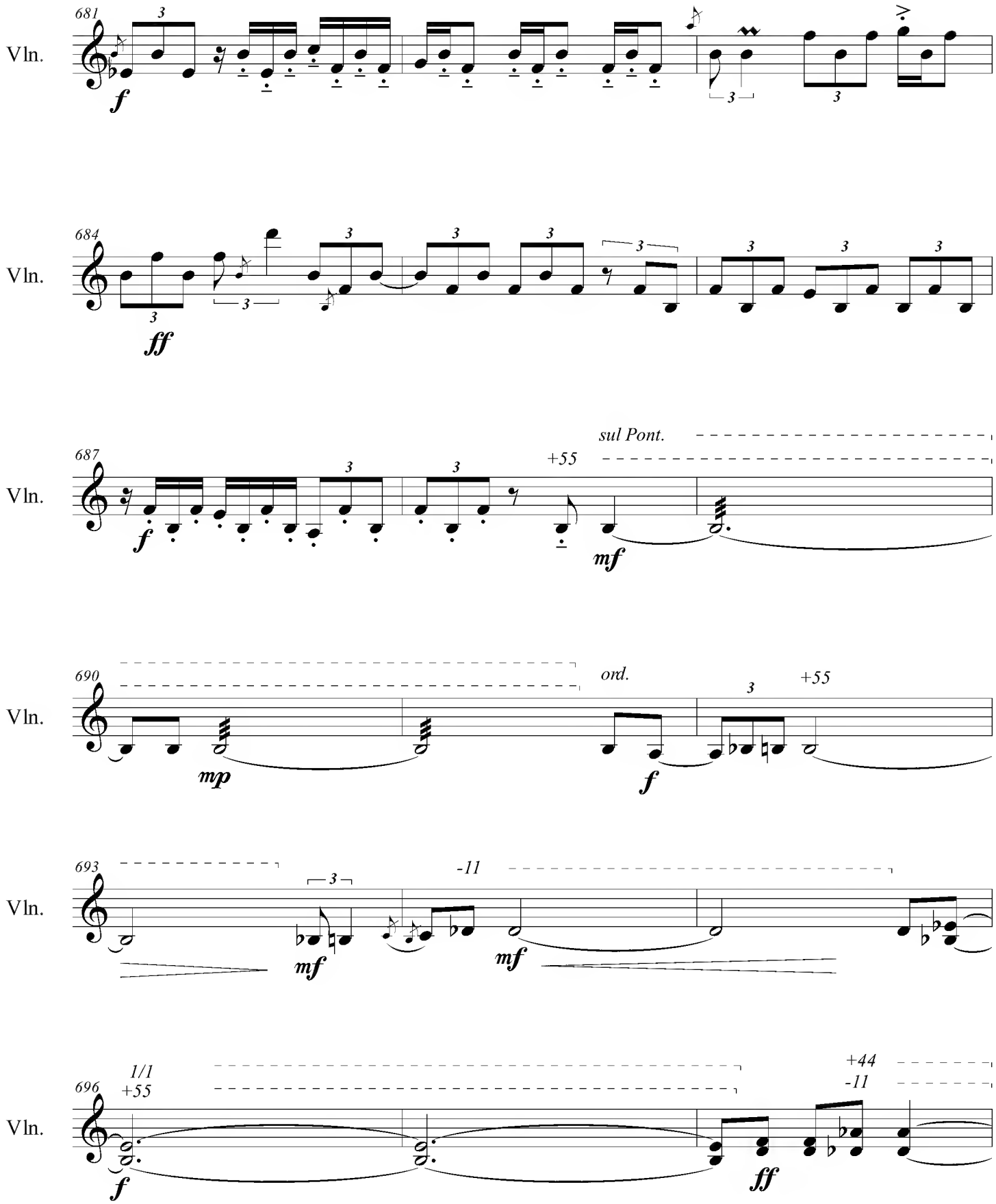

591
Vln.
mf
tr
-11
3
4♩.:3♩
fff
+55
mp
594
Vln.
3
mf
f
597
Vln.
3
fff
sul Pont.
Gliss.
Open
+11
mf
600
Vln.
Gliss.
+22
Open
-11
-22
f
mf
f
603
Vln.
+55
ff
ord.
+22
ff
606
Vln.
-22
+33
mf
ff

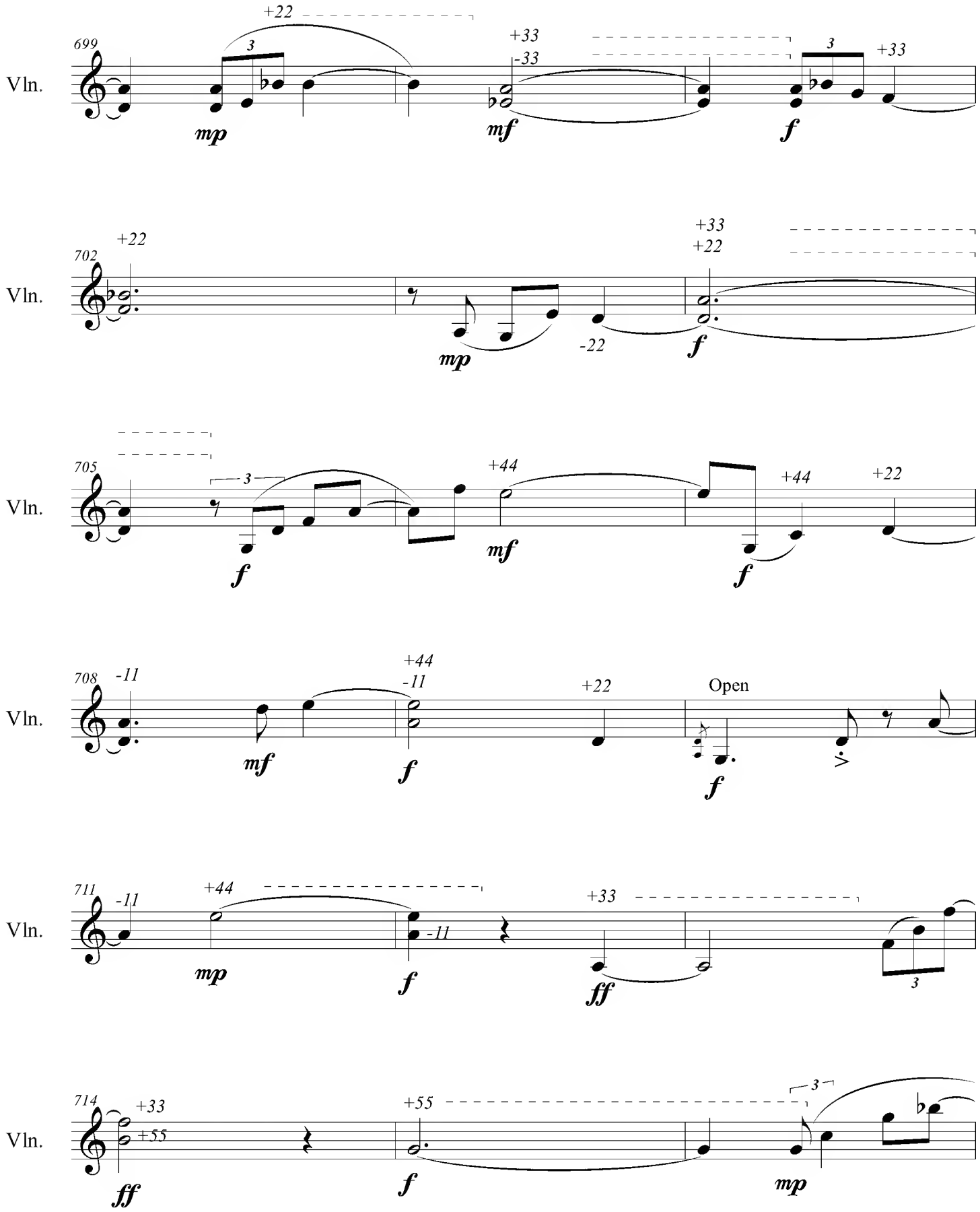

609
Vln.
+44
+44
-11
Open
+33
-11
-11
612
+22
3
+33
1/1
+44
-11
Open
Open
615
3
1/1
+44
-11
+44
-11
618
-33
Open
621
-11
Open
+44
Open
shove that fucking bow on those strings!
624
3
+22
-22
+22
+33

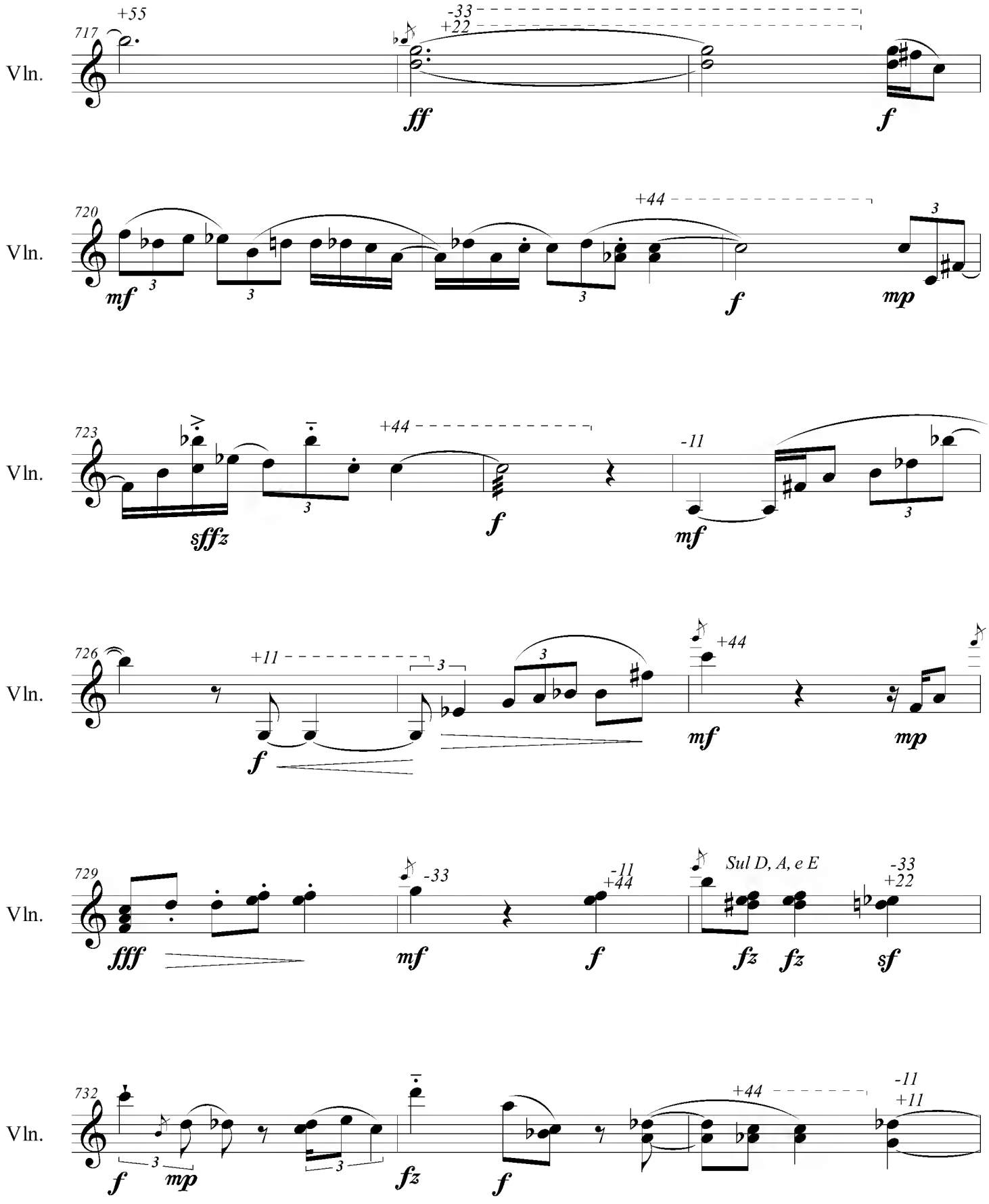

627
Vln.
+22
Open
mf
f
ff
f
630
Vln.
3
+55
+33
-11
fff
633
Vln.
3
+44
f
+44
+89
tr
3
-11
mf
636
Vln.
-33
mp
mp
-22
ff
639
Vln.
3
3
f
sfz
sffz
642
Vln.
3
mf
3
3
ff

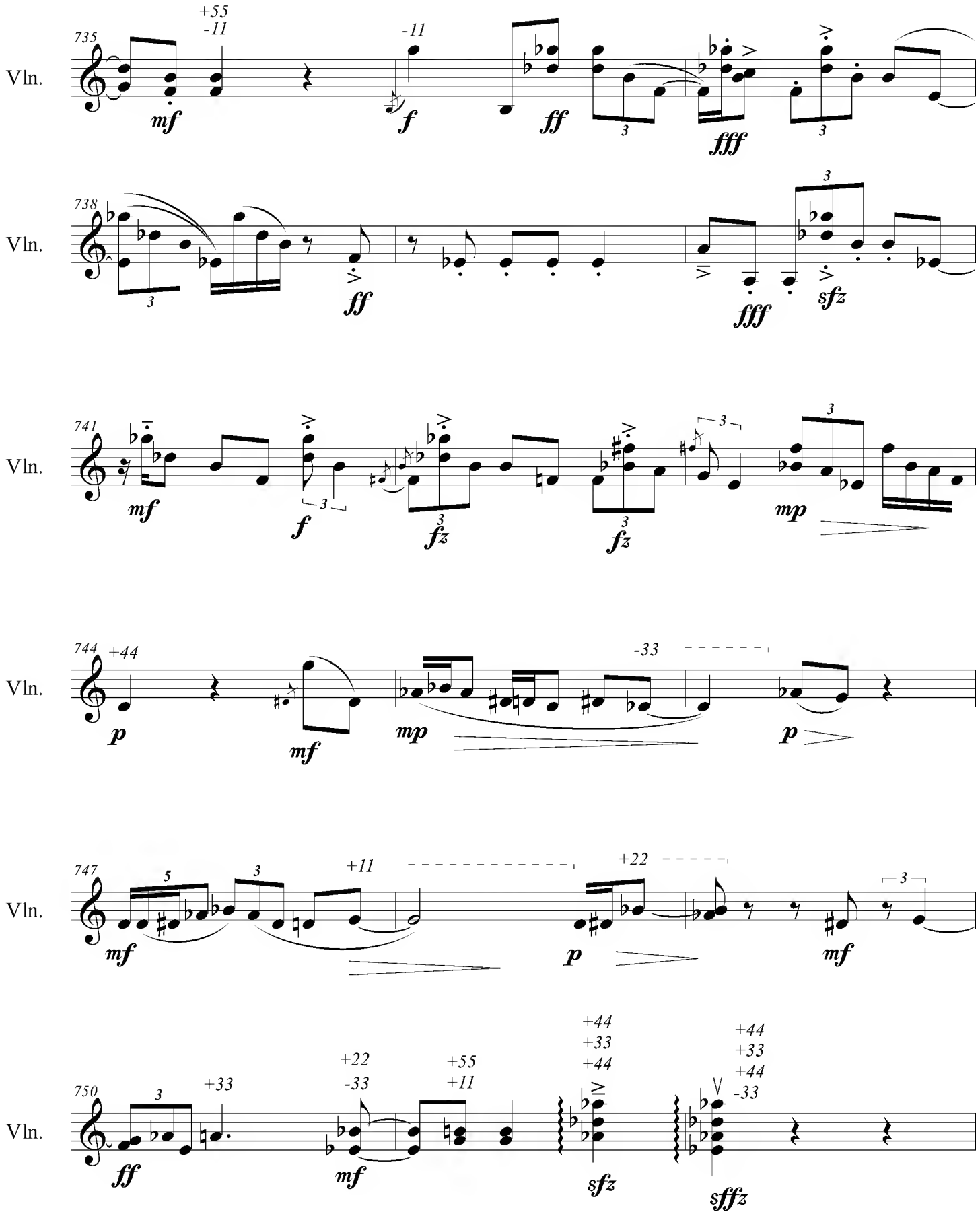

645
Vln.
mf
f
mp
f
sffz
ff
648
Vln.
f
sfz
mp
f
fz
651
Vln.
mf
mf
fz
sffz
sul G, D, A
654
Vln.
mp
sffz
sfz
sf
657
Vln.
-11
mf
+22
-22
+44
sf
660
Vln.
+55
+22
+22
+44
f
fff
fp

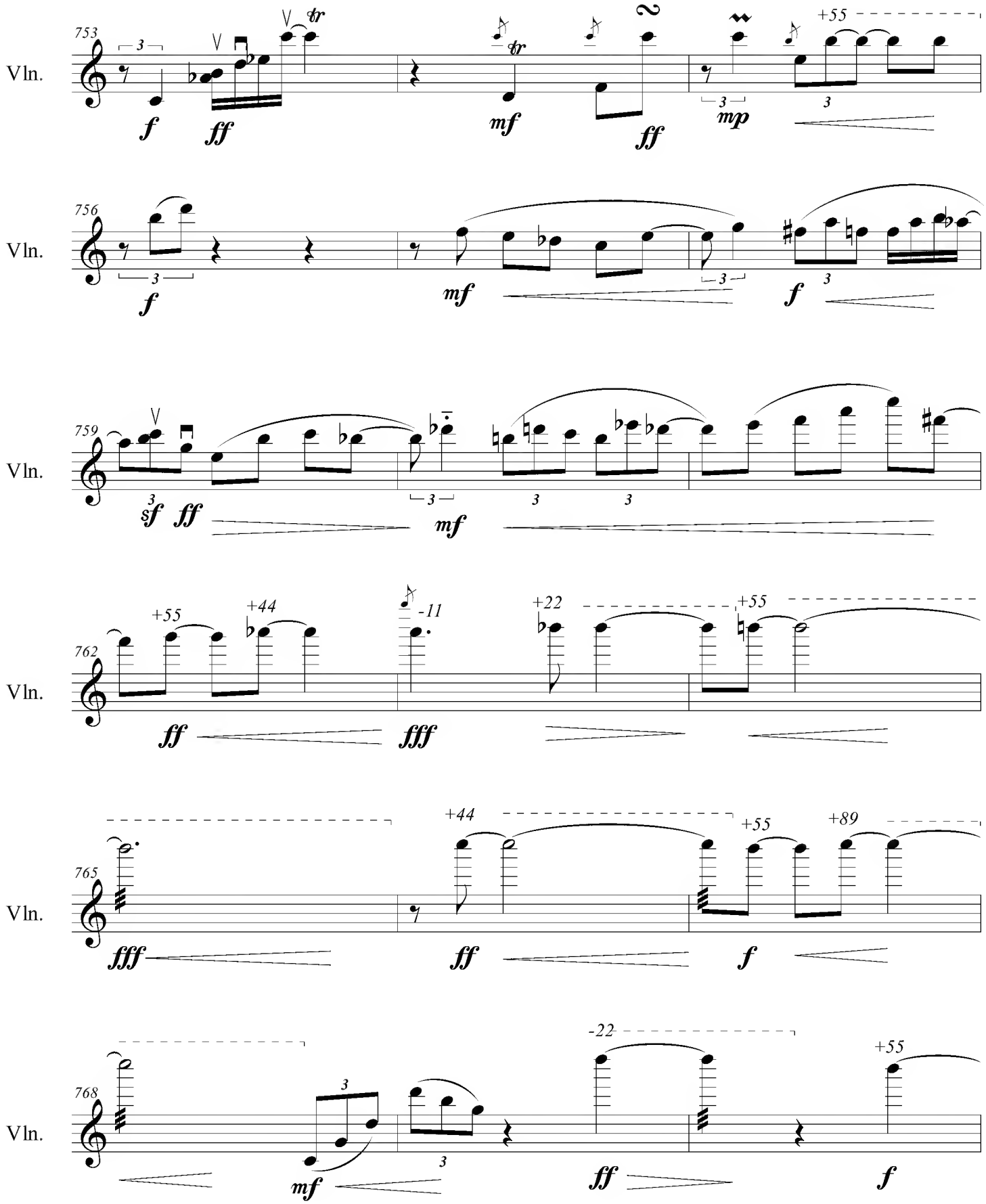

663
Vln.
mf
f
f
666
Vln.
mf
669
Vln.
f
ff
672
Vln.
fz
-11
mf
fz
675
Vln.
f
+44
fff
678
Vln.
ff

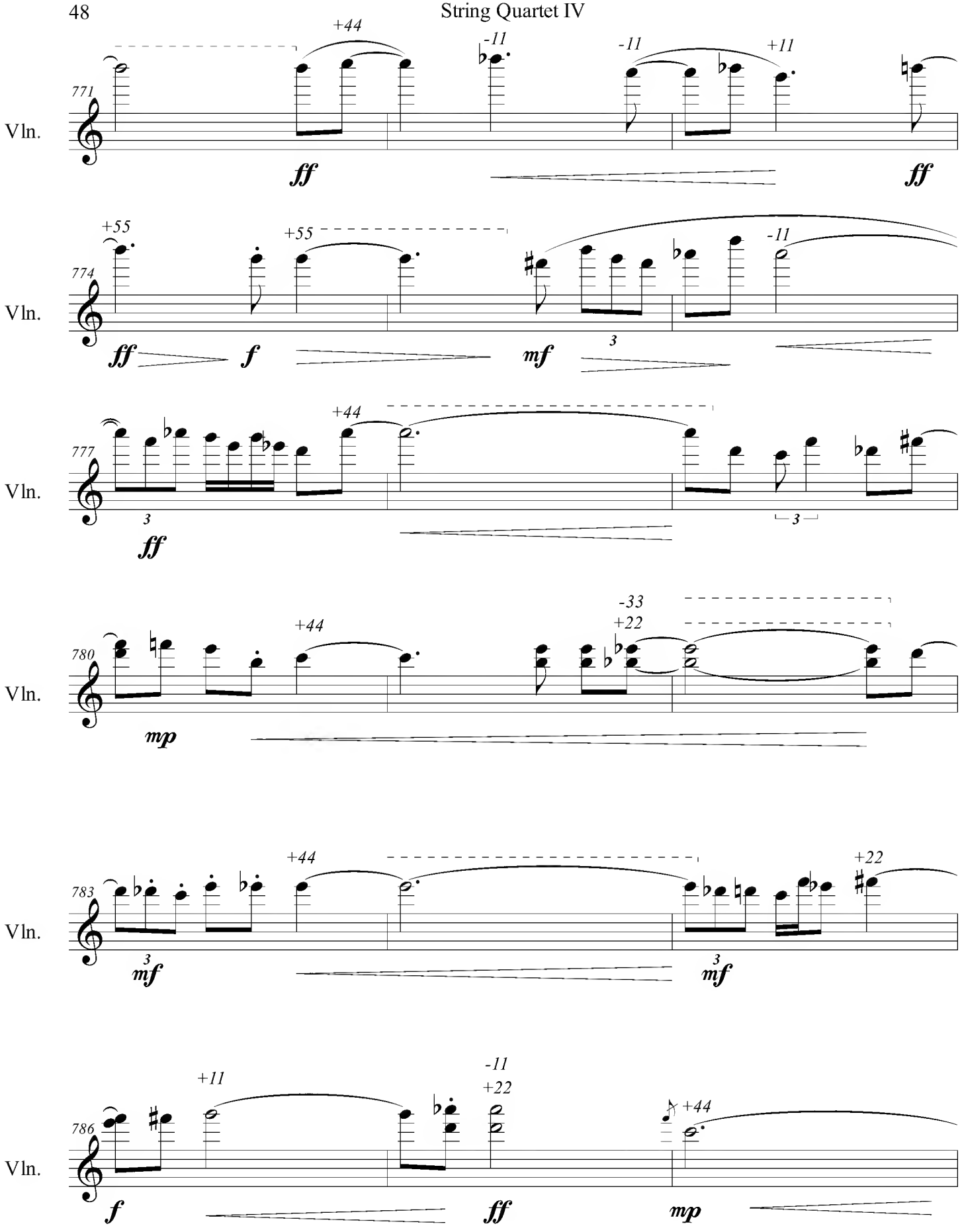

681
Vln.
f
684
Vln.
ff
687
Vln.
f
sul Pont.
+55
mf
690
Vln.
mp
ord.
+55
f
693
Vln.
mf
-11
mf
696
Vln.
1/1
+55
f
+44
-11
ff

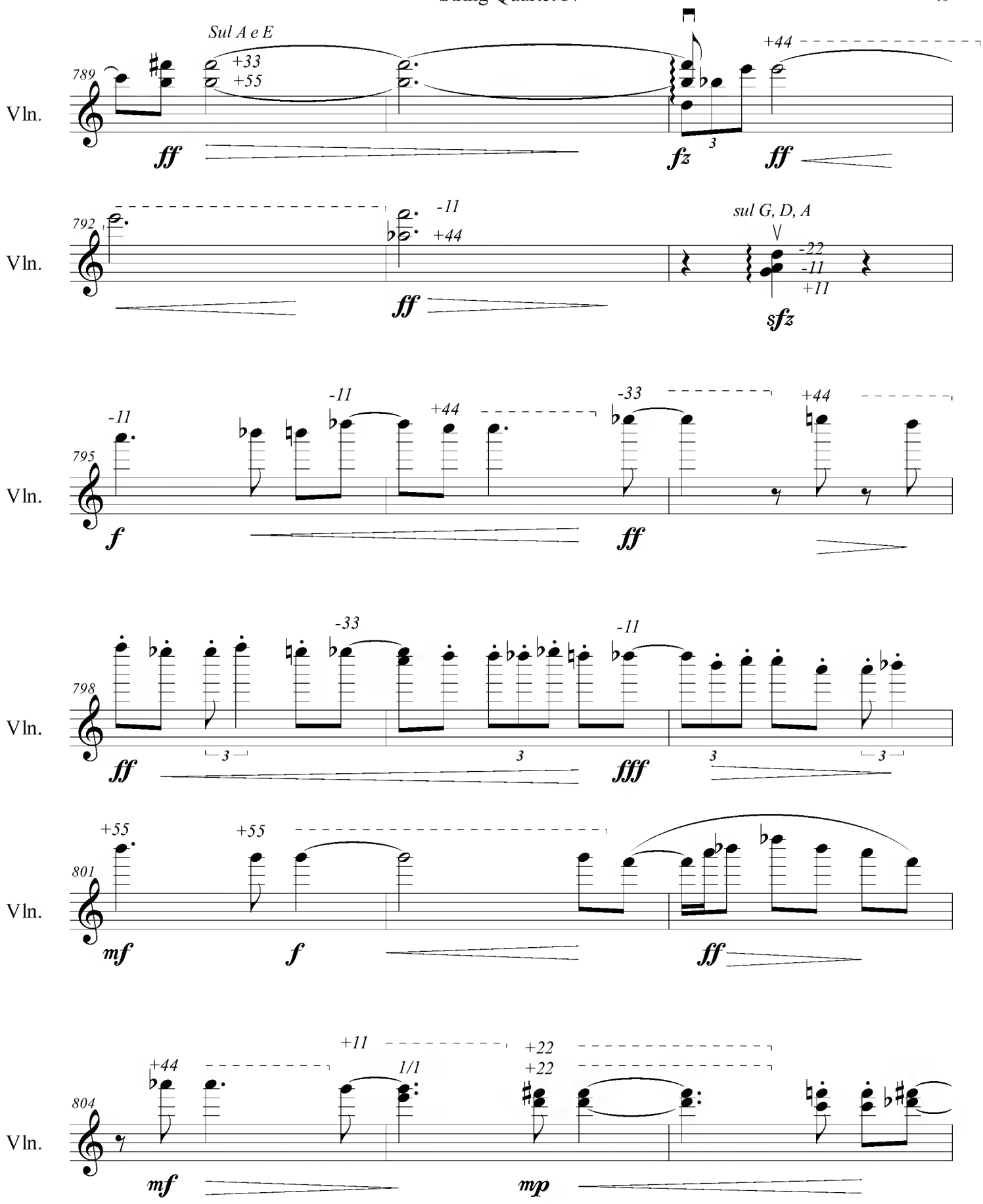

699
Vln.
+22
3
+33
-33
mp
mf
f
3
+33
702
Vln.
+22
mp
-22
+33
+22
f
705
Vln.
3
+44
f
mf
+44
f
+22
708
Vln.
-11
+44
-11
mf
f
+22
Open
f
711
Vln.
-11
+44
mp
-11
f
+33
ff
3
714
Vln.
+33
+55
ff
+55
f
3
mp

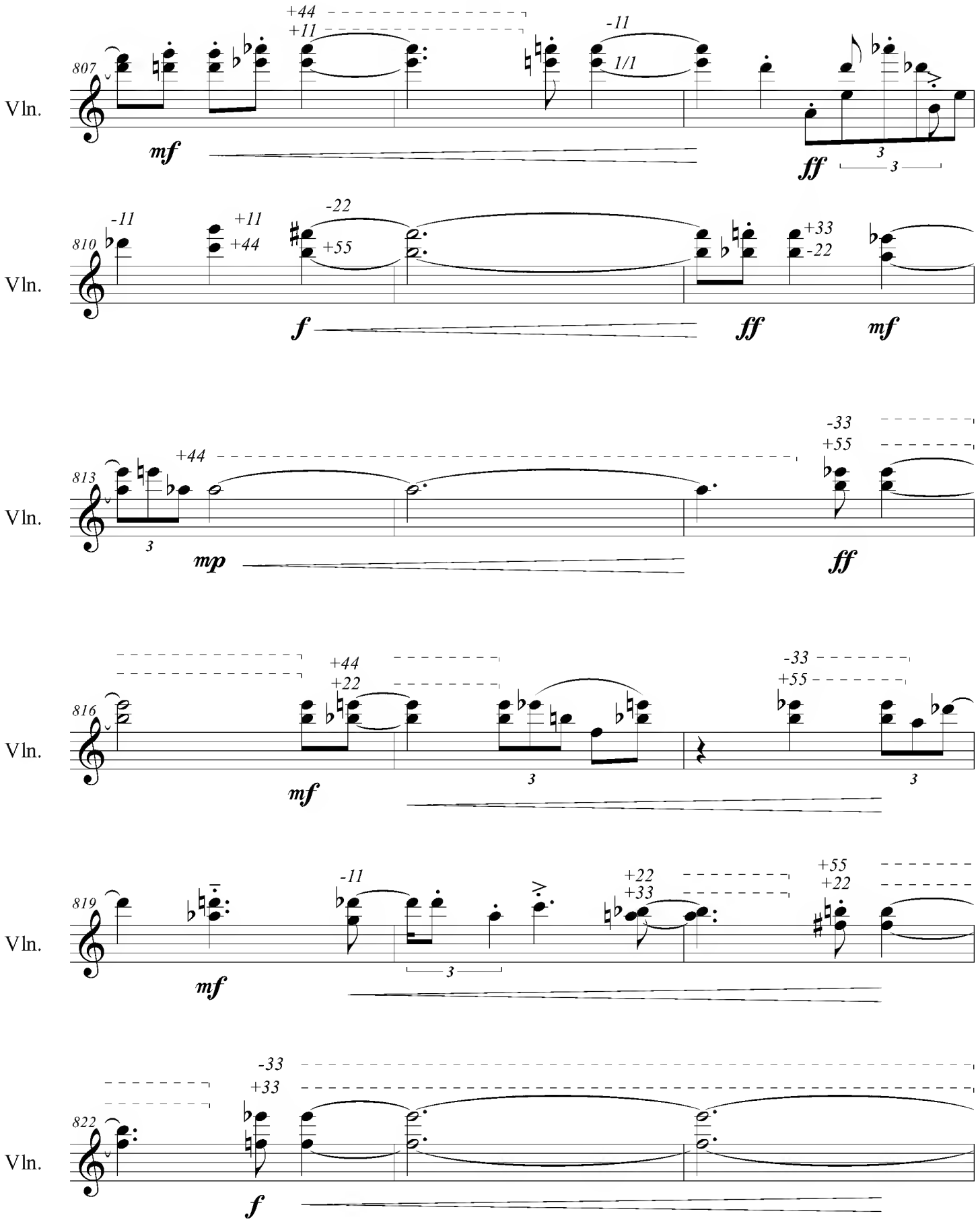

Vln.
717
+55
-33
+22
ff
f
720
+44
mf
f
mp
723
+44
sffz
f
-11
mf
726
+11
f
+44
mf
mp
729
-33
-11
+44
Sul D, A, e E
-33
+22
fff
mf
f
fz
fz
sf
732
f
mp
fz
f
+44
-11
+11

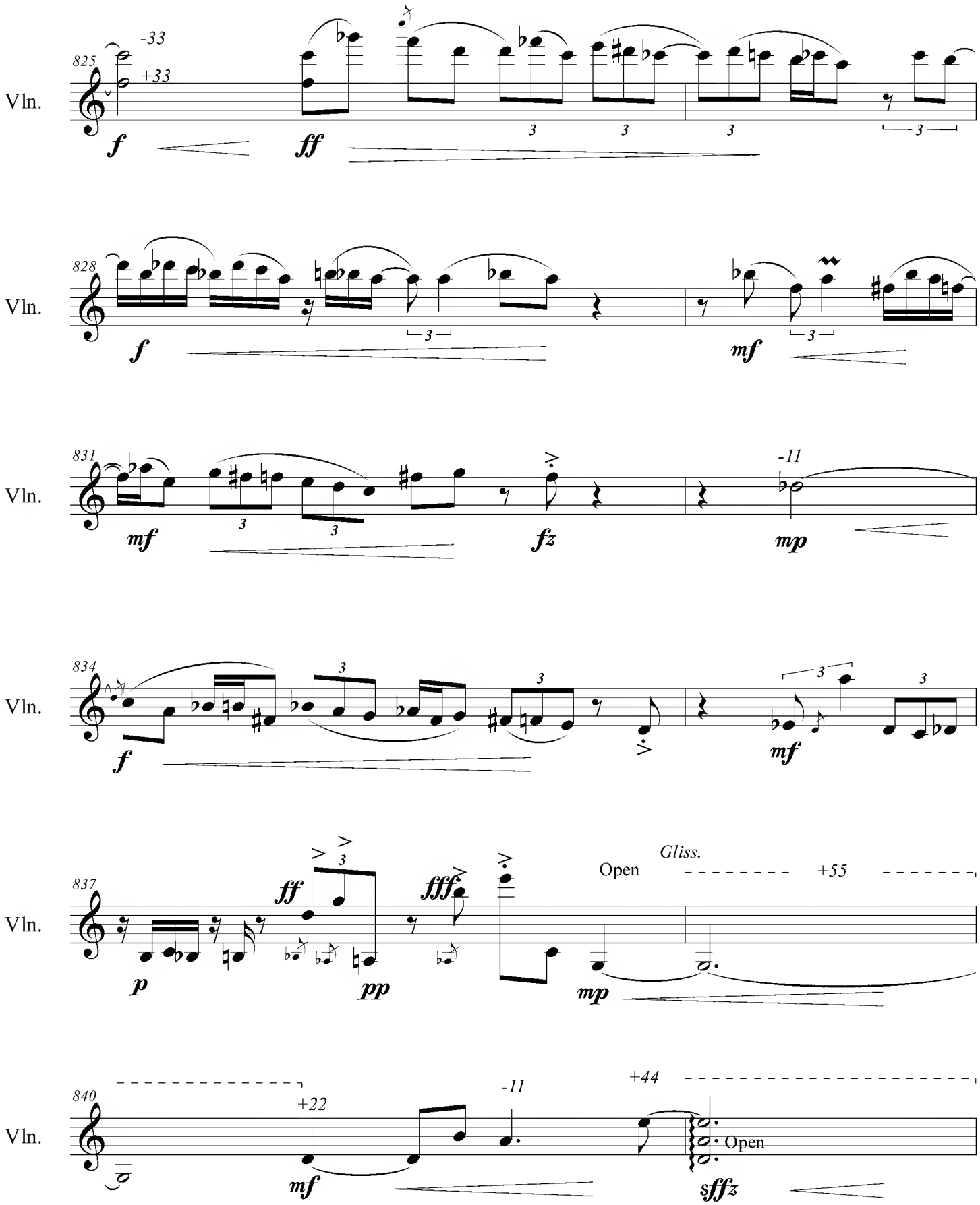

735
+55
-11
-11
Vln.
mf
f
ff
fff
738
Vln.
ff
fff
sfz
741
Vln.
mf
f
fz
fz
mp
744
+44
-33
Vln.
p
mf
mp
p
747
+11
+22
Vln.
mf
p
mf
750
+33
+22
-33
+55
+11
+44
+33
+44
+44
+33
+44
-33
Vln.
ff
mf
sfz
sffz

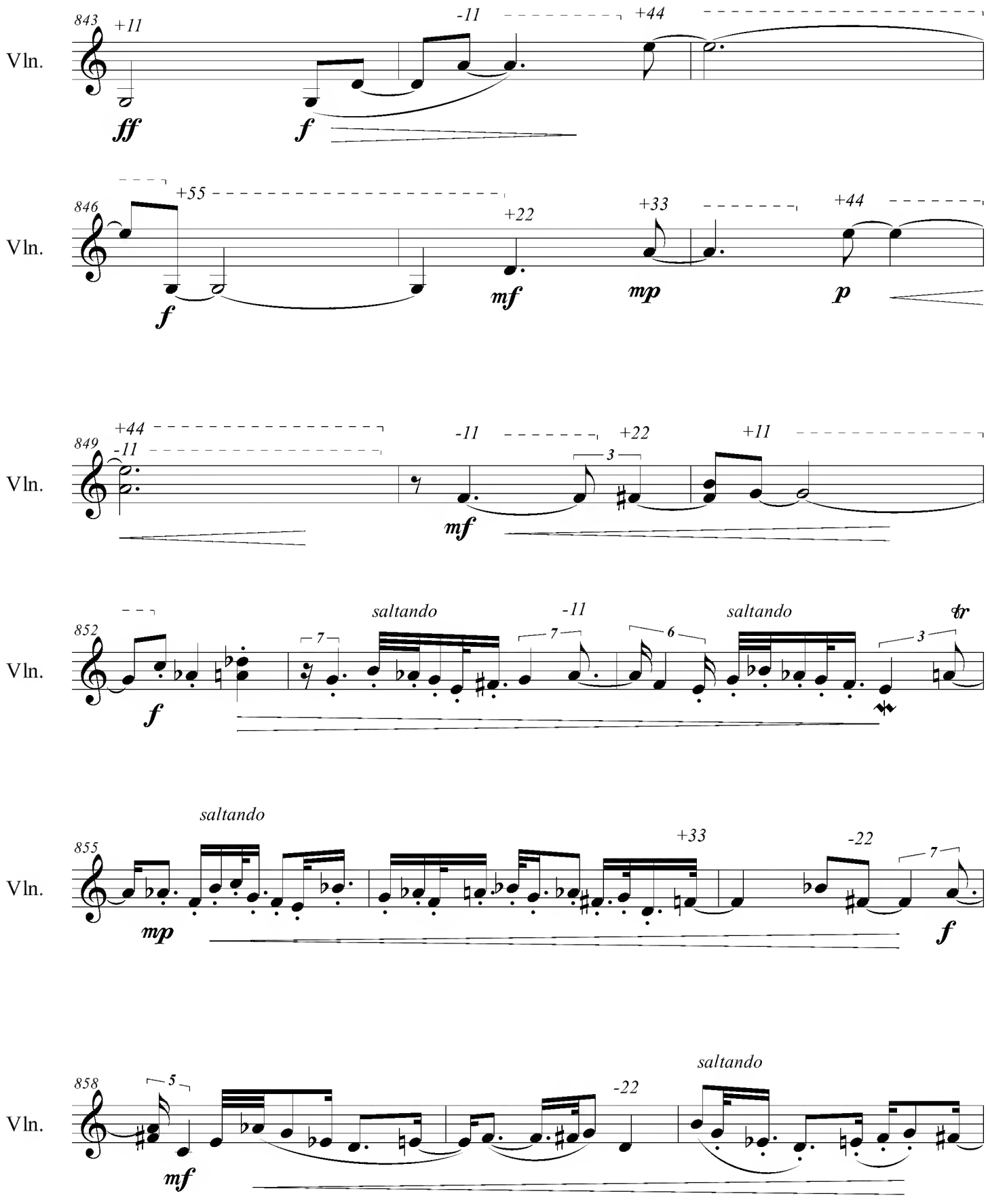

753
Vln.
f
ff
mf
ff
mp
+55
756
Vln.
f
mf
f
759
Vln.
sf ff
mf
762
Vln.
+55
+44
-11
+22
+55
ff
fff
765
Vln.
+44
+55
+89
fff
ff
f
768
Vln.
-22
+55
mf
ff
f

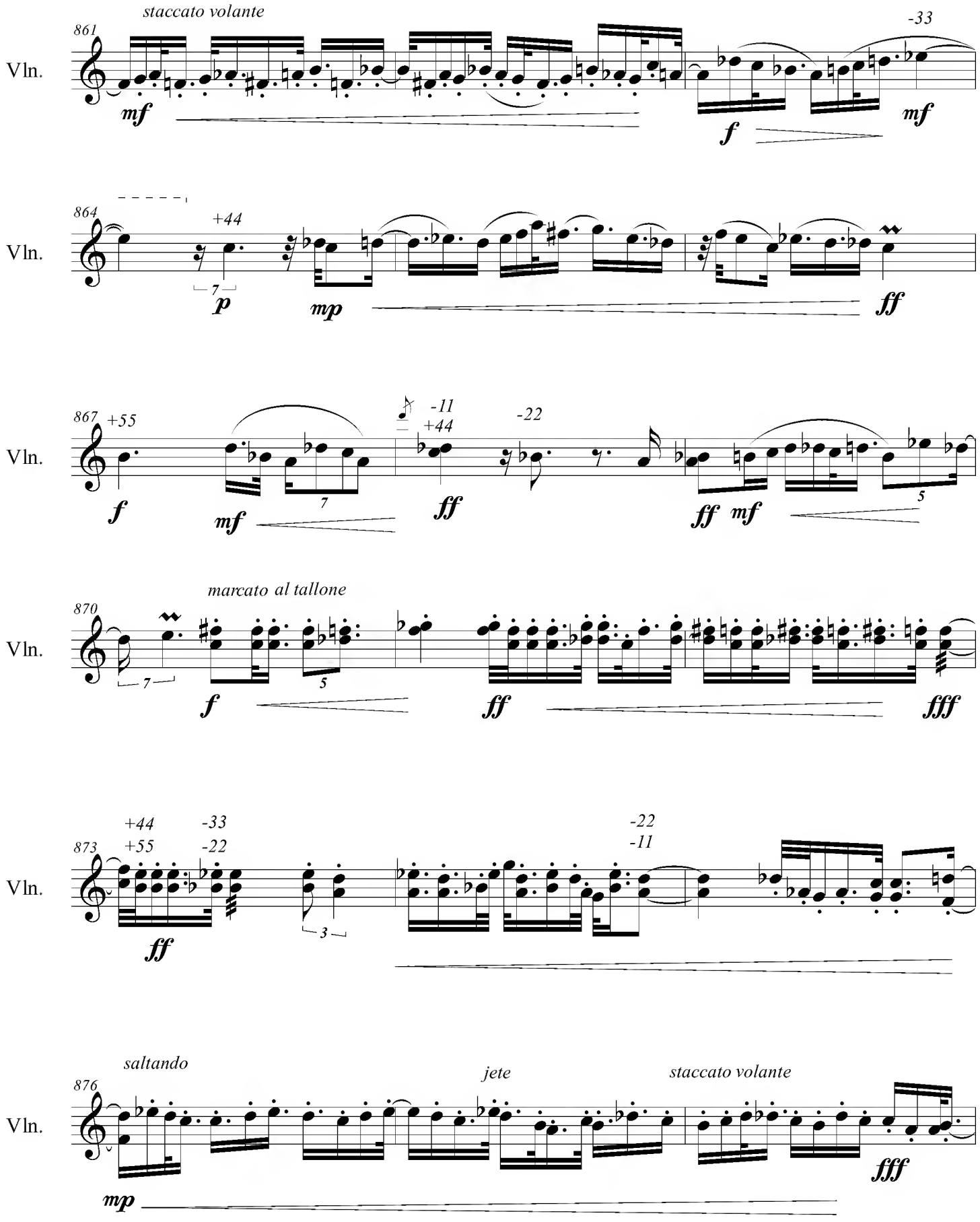

771
Vln.
+44
-11
-11
+11
ff
ff
774
Vln.
+55
+55
-11
ff
f
mf
3
777
Vln.
+44
3
ff
3
780
Vln.
+44
-33
+22
mp
783
Vln.
+44
+22
3
mf
3
mf
786
Vln.
+11
-11
+22
+44
f
ff
mp

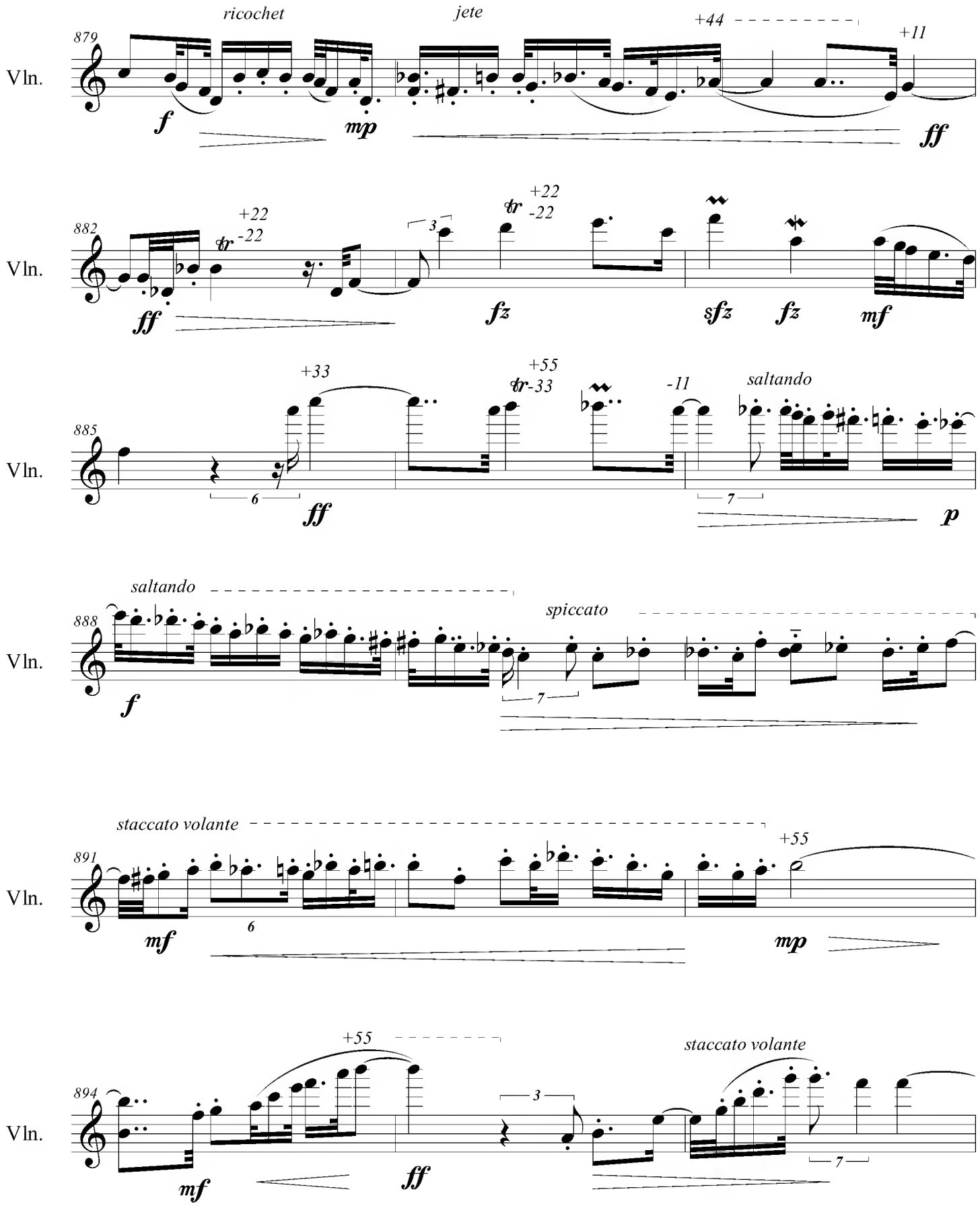

Sul A e E
789
Vln.
+33
+55
+44
ff
fz
ff
792
Vln.
-11
+44
sul G, D, A
-22
-11
+11
ff
sfz
795
Vln.
-11
-11
+44
-33
+44
f
ff
798
Vln.
-33
-11
3
3
3
3
ff
fff
801
Vln.
+55
+55
mf
f
ff
804
Vln.
+44
+11
1/1
+22
+22
mf
mp

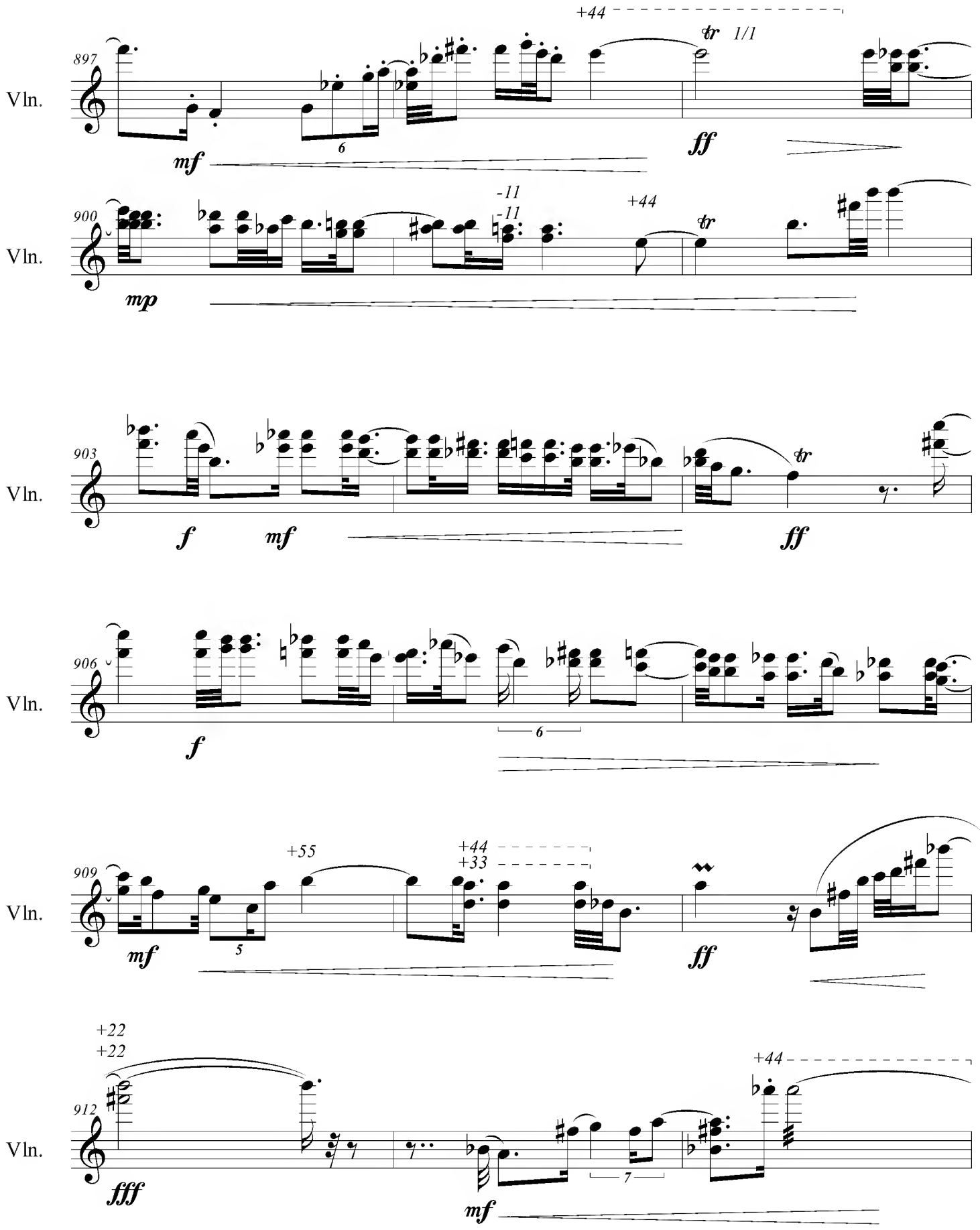

807
Vln.
+44
+11
-11
1/1
mf
ff
3
3
810
Vln.
-11
+11
+44
-22
+55
+33
-22
f
ff
mf
813
Vln.
+44
3
mp
-33
+55
ff
816
Vln.
+44
+22
mf
3
-33
+55
3
819
Vln.
-11
3
mf
+22
+33
+55
+22
822
Vln.
-33
+33
f

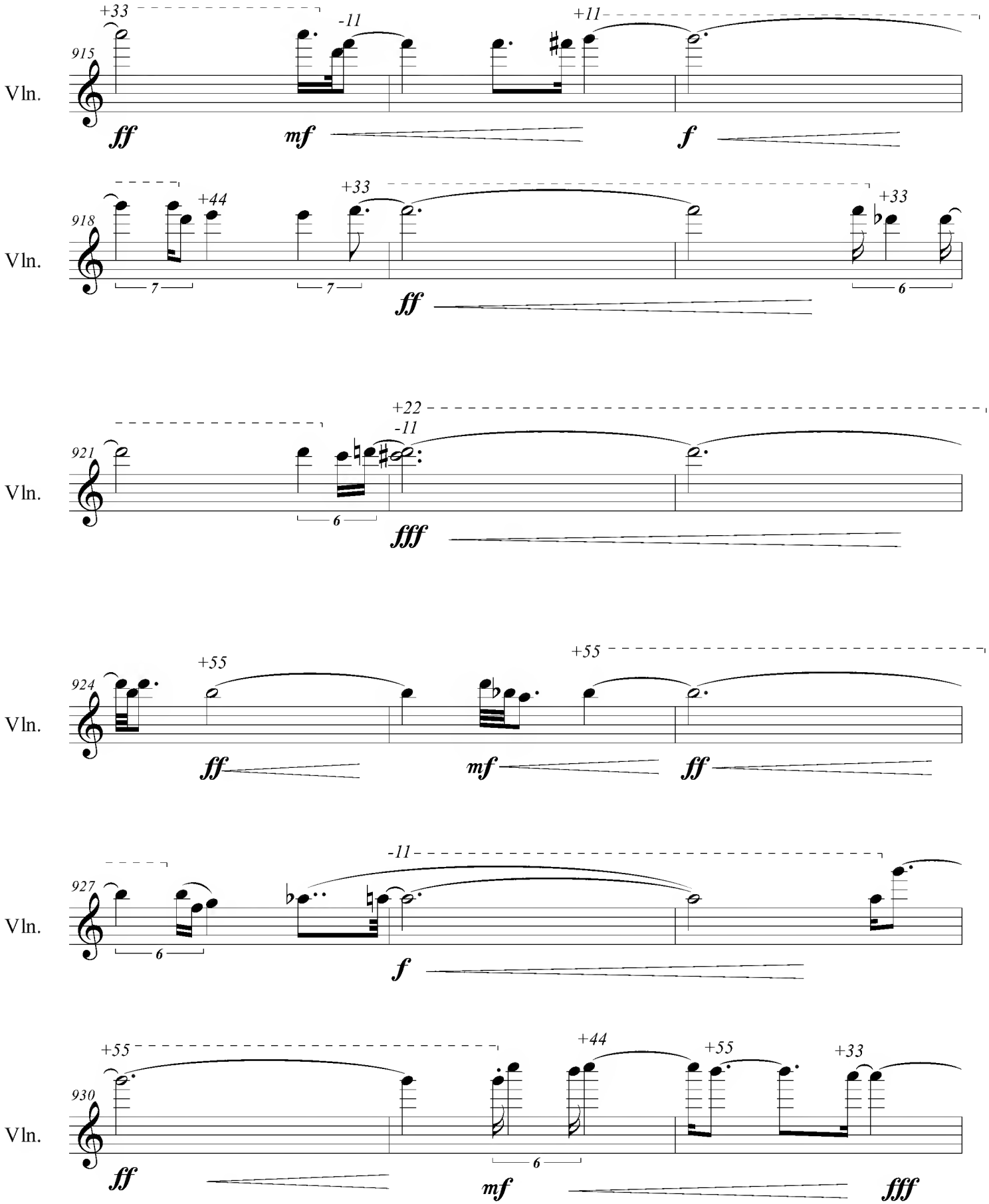

825
-33
+33
Vln.
f
ff
828
Vln.
f
mf
831
Vln.
mf
fz
-11
mp
834
Vln.
f
mf
837
Vln.
p
ff
pp
fff
Gliss.
Open
+55
mp
840
Vln.
+22
mf
-11
+44
Open
sffz

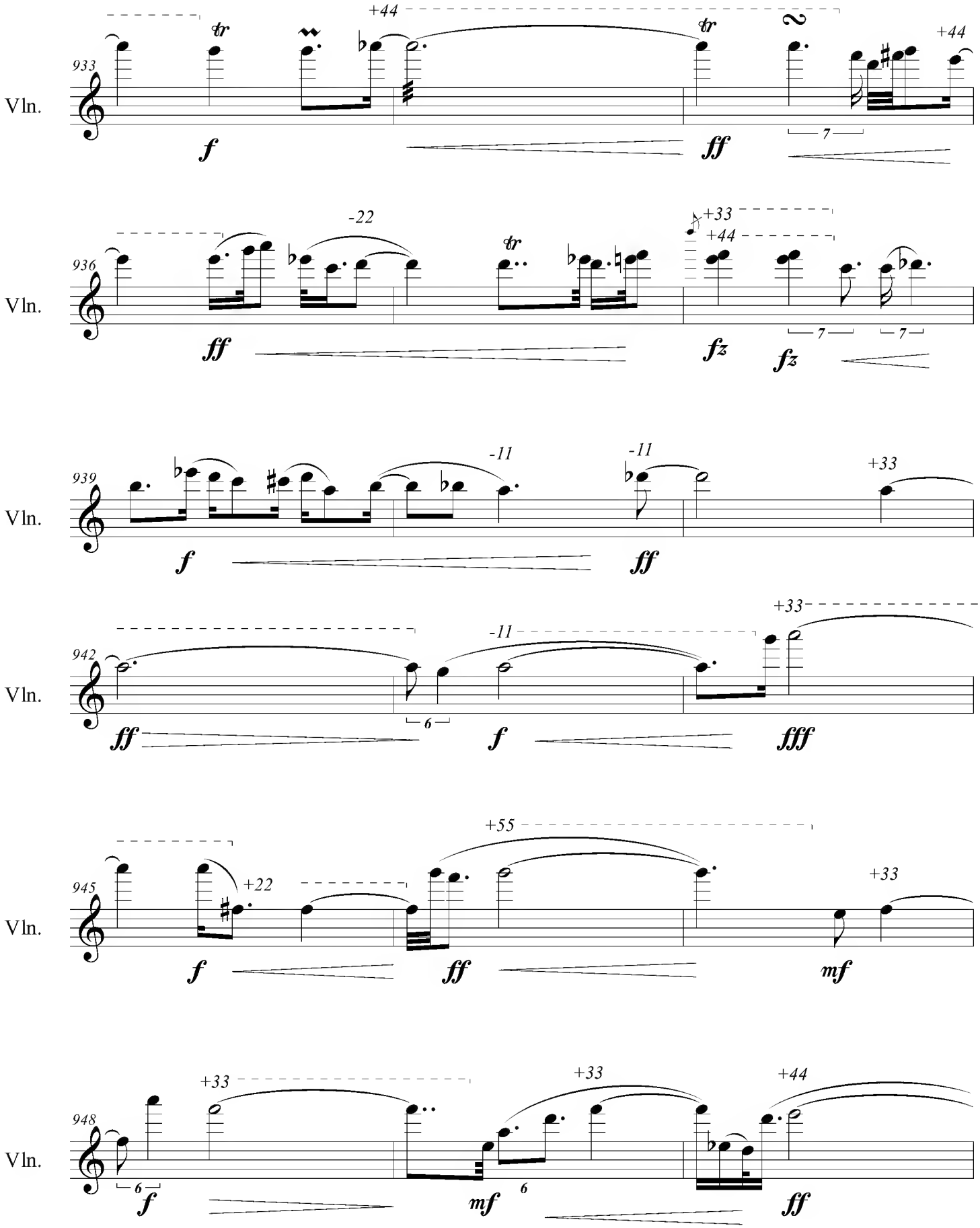

Vln.
843
+11
-11
+44
ff
f
Vln.
846
+55
+22
+33
+44
f
mf
mp
p
Vln.
849
+44
-11
-11
+22
+11
3
mf
Vln.
852
saltando
-11
saltando
7
7
6
3
tr
f
Vln.
855
saltando
+33
-22
7
mp
f
Vln.
858
5
-22
saltando
mf

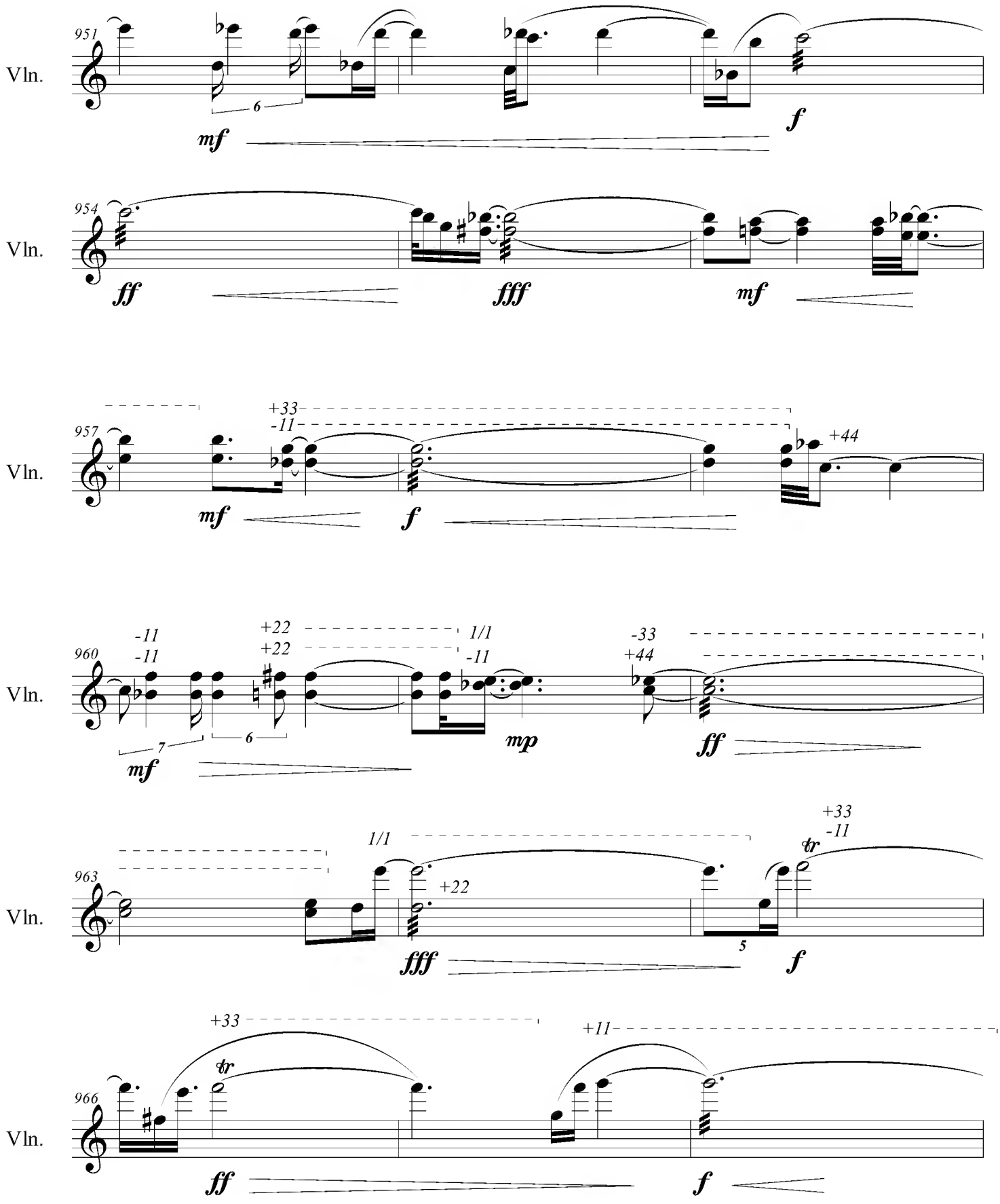

staccato volante
861
-33
Vln.
mf
f
mf
864
+44
7
p
mp
ff
867
+55
-11
+44
-22
f
mf
7
ff
ff
mf
5
marcato al tallone
870
7
5
f
ff
fff
873
+44
+55
-33
-22
-22
-11
3
ff
saltando
jete
staccato volante
876
mp
fff

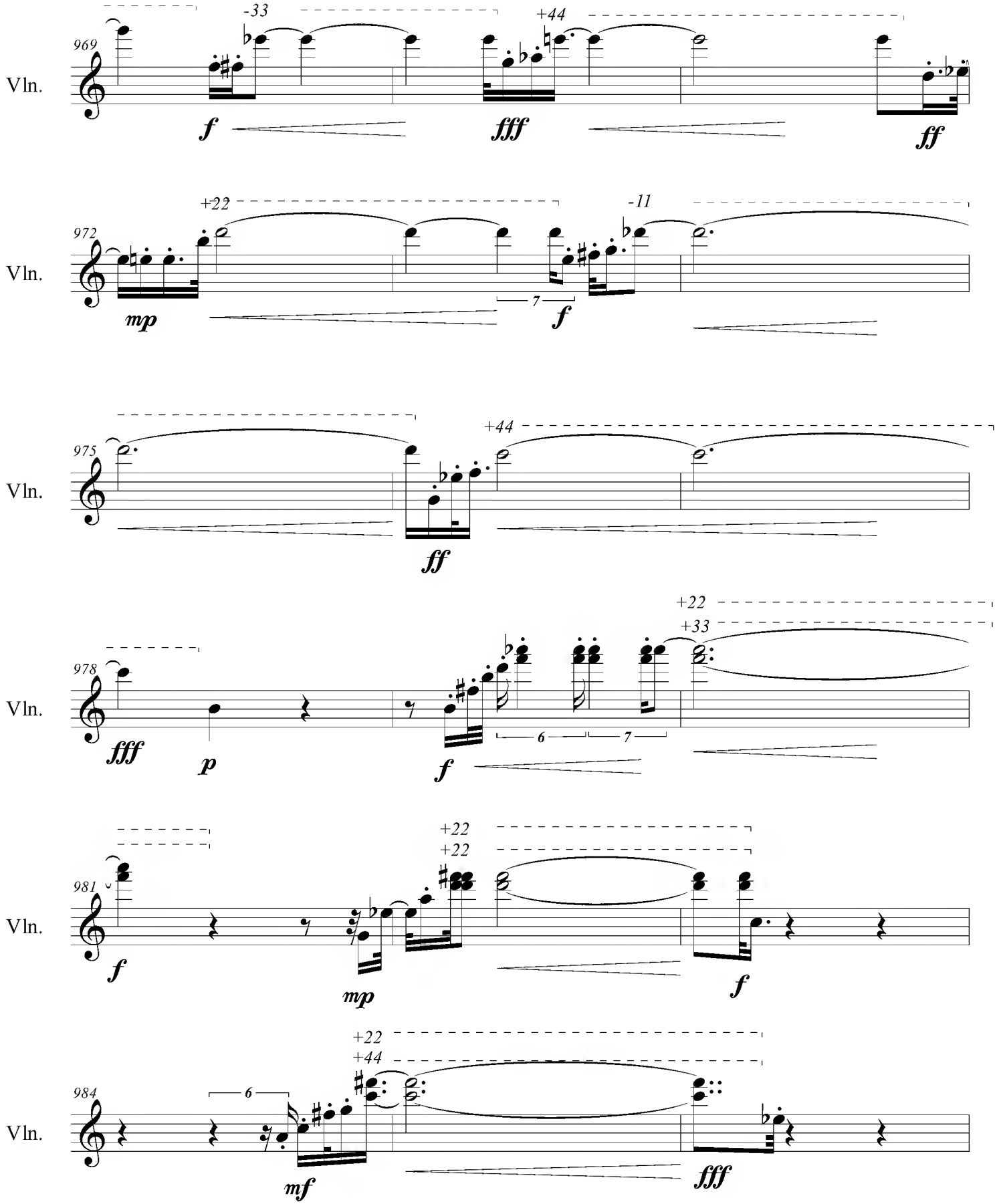

Vln.
879
ricochet
jete
+44
+11
f
mp
ff
882
+22
-22
tr
3
fz
sfz
mf
885
+33
+55
-11
saltando
6
7
p
888
spiccato
891
staccato volante
894
+55
mf

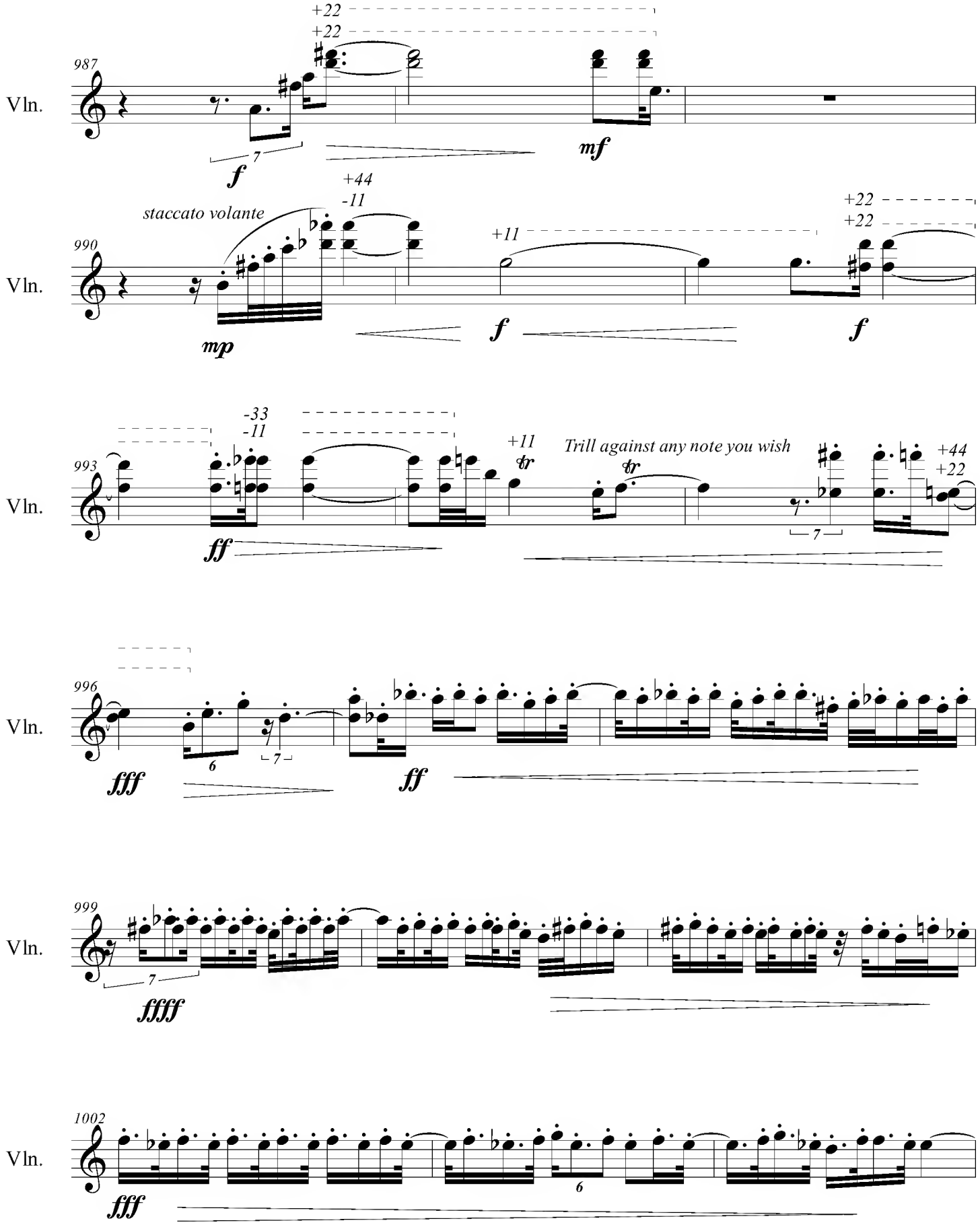

Vln.
897
+44
1/1
mf
ff
900
-11
-11
+44
mp
903
f
mf
ff
906
f
6
909
+55
+44
+33
mf
5
ff
912
+22
+22
fff
+44
mf
7

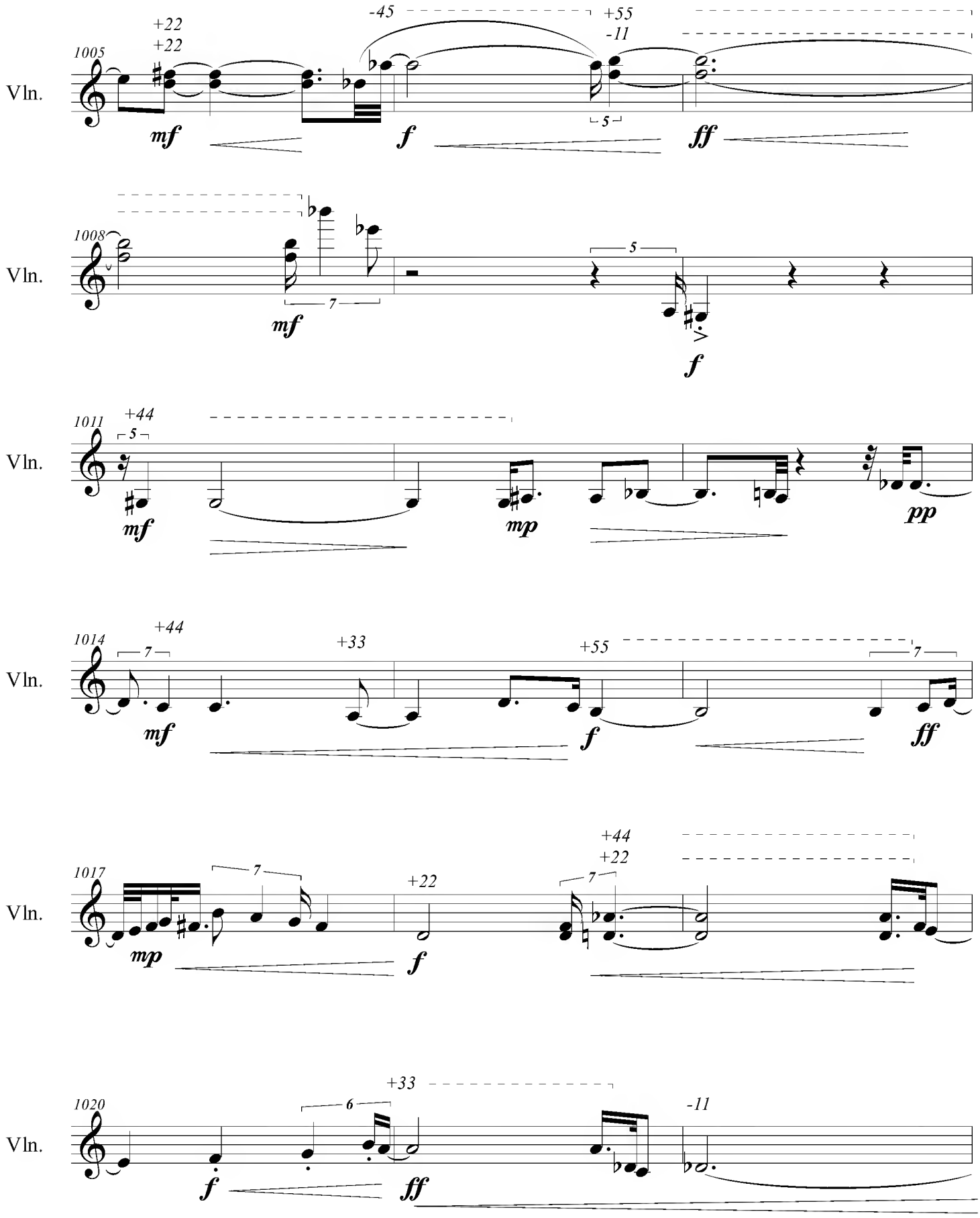

915
Vln.
+33
-11
+11
ff
mf
f
918
Vln.
+44
+33
+33
7
7
6
ff
921
Vln.
+22
-11
6
fff
924
Vln.
+55
+55
ff
mf
ff
927
Vln.
-11
6
f
930
Vln.
+55
+44
+55
+33
6
ff
mf
fff

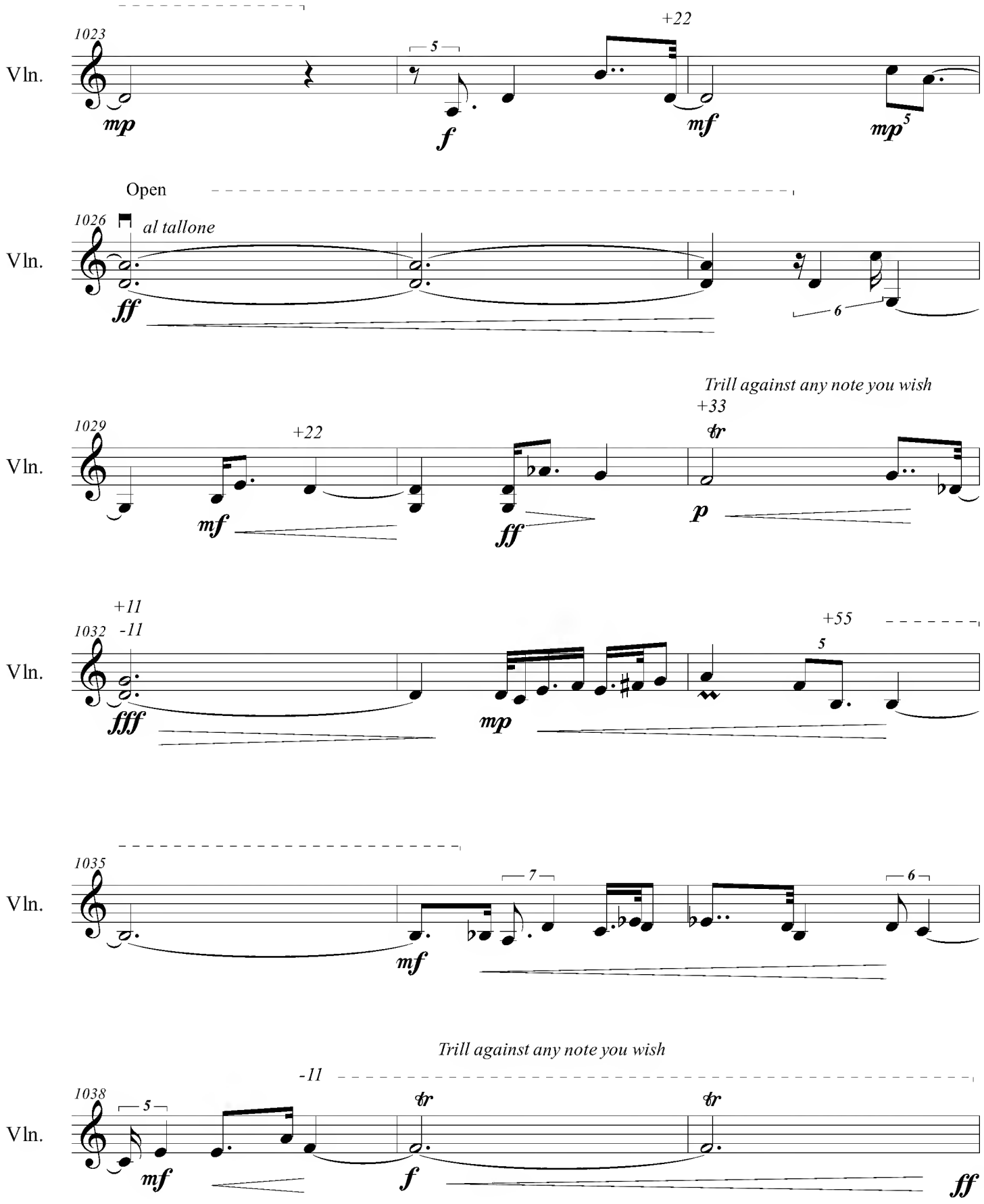

933
Vln.
+44
+44
7
936
Vln.
-22
+33
+44
7
7
939
Vln.
-11
-11
+33
942
Vln.
+33
-11
6
945
Vln.
+22
+55
+33
948
Vln.
+33
+33
+44
6
6

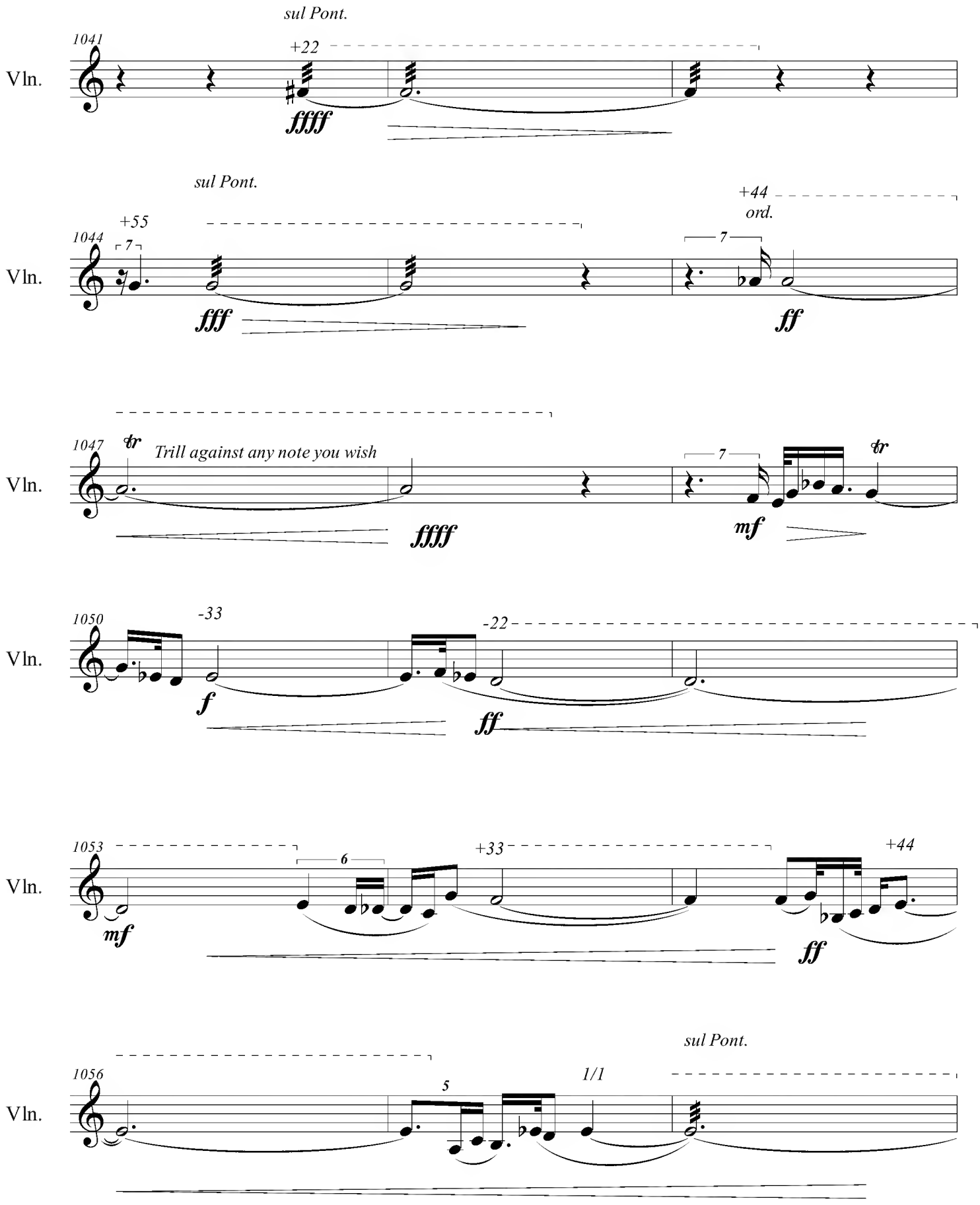

951
Vln.
6
mf
f
954
Vln.
ff
fff
mf
957
Vln.
+33
-11
+44
mf
f
960
Vln.
-11
-11
+22
+22
1/1
-11
-33
+44
7
6
mf
mp
ff
963
Vln.
1/1
+22
+33
-11
tr
fff
5
f
966
Vln.
+33
tr
+11
ff
f

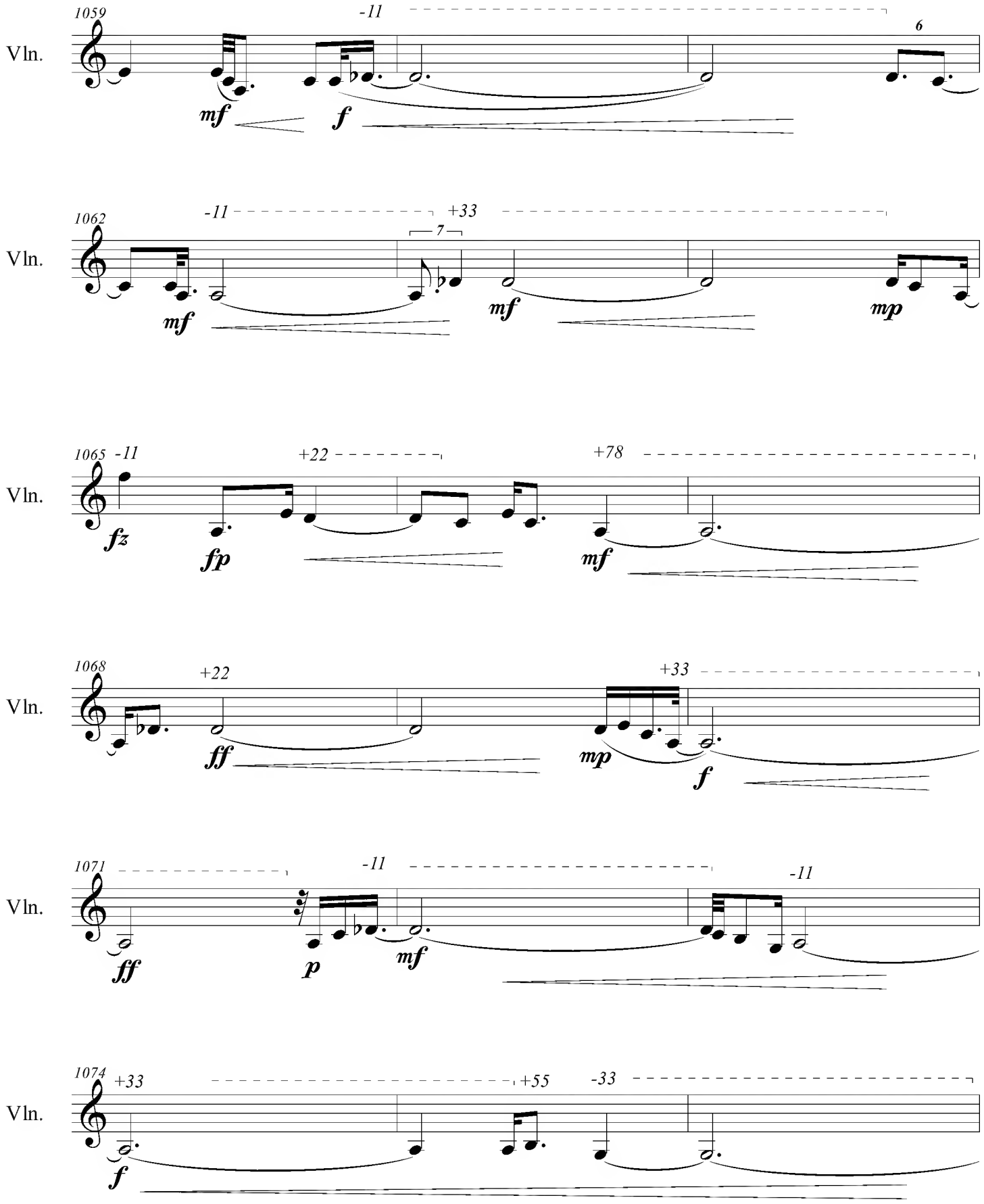

969
Vln.
-33
+44
f
fff
ff
972
Vln.
+22
-11
mp
7
f
975
Vln.
+44
ff
978
Vln.
+22
+33
fff
p
6
7
f
981
Vln.
+22
+22
f
mp
f
984
Vln.
6
+22
+44
mf
fff

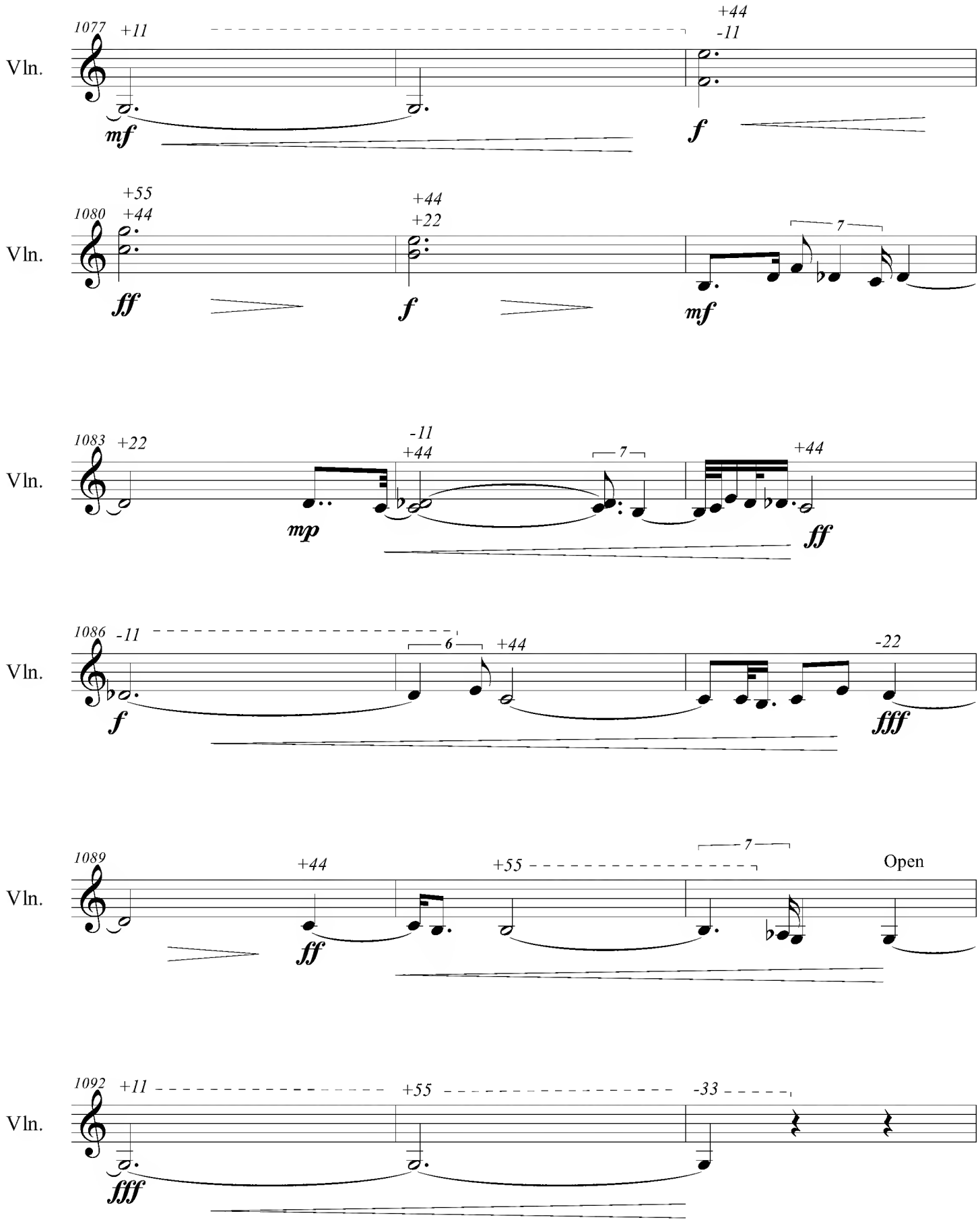

Vln.
987
+22
+22
7
f
mf
Vln.
990
staccato volante
+44
-11
+11
+22
+22
mp
f
f
Vln.
993
-33
-11
+11
tr
Trill against any note you wish
tr
+44
+22
7
ff
Vln.
996
fff
6
7
ff
Vln.
999
7
ffff
Vln.
1002
fff
6

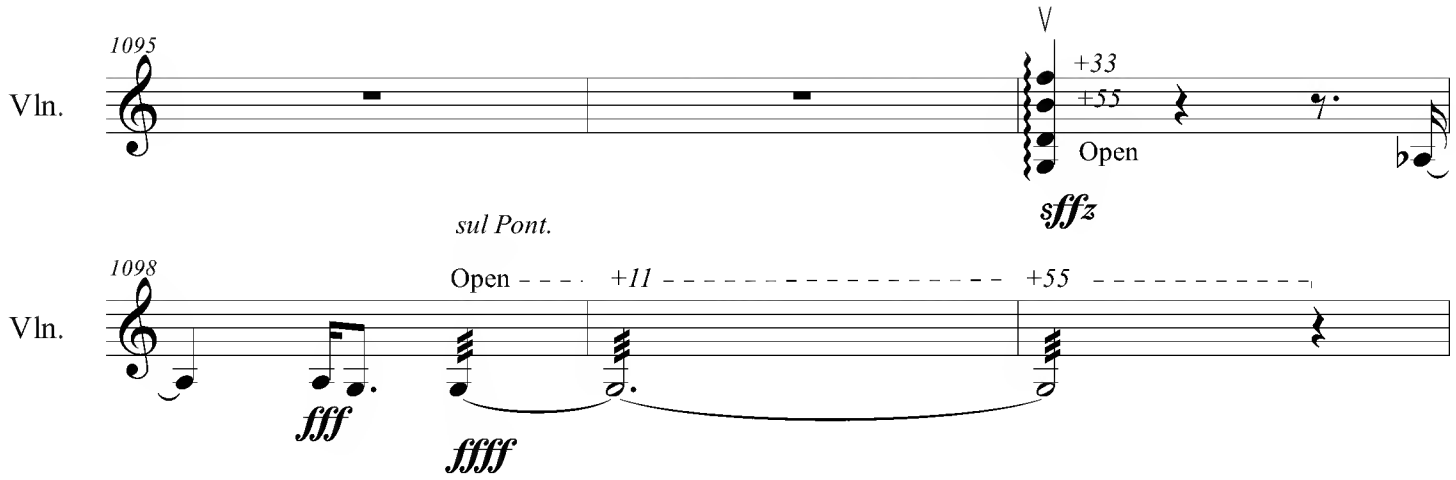

1005
Vln.
+22
+22
-45
+55
-11
mf
f
ff
1008
Vln.
mf
f
1011
Vln.
+44
mf
mp
pp
1014
Vln.
+44
+33
+55
mf
f
ff
1017
Vln.
+22
+44
+22
mp
f
1020
Vln.
+33
f
ff
-11

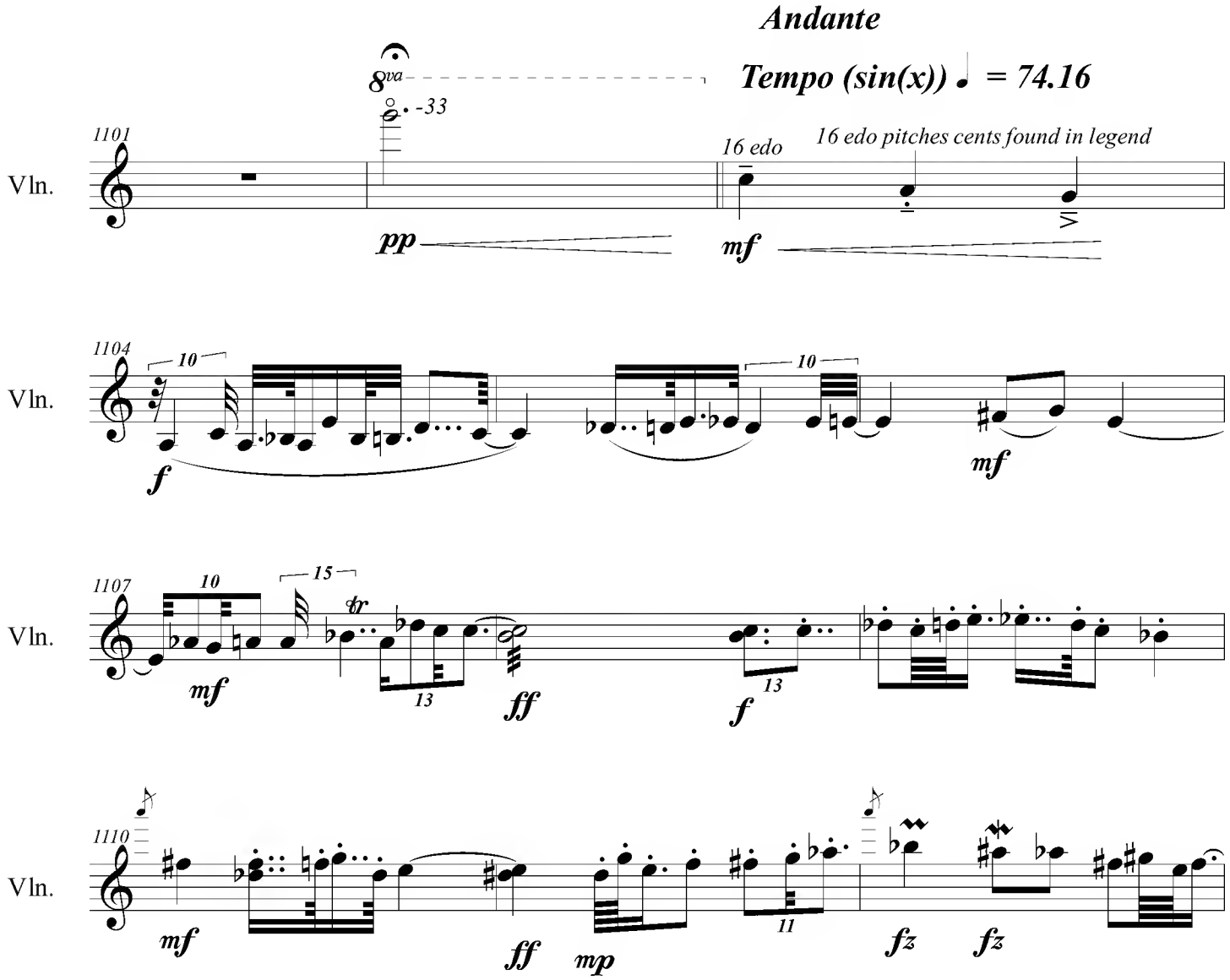

Vln.
1023
mp
5
f
+22
mf
mp
5
Open
1026
al tallone
ff
6
Trill against any note you wish
+33
1029
+22
mf
ff
tr
p
+11
-11
1032
fff
mp
+55
5
1035
7
mf
6
Trill against any note you wish
-11
1038
5
mf
tr
f
tr
ff

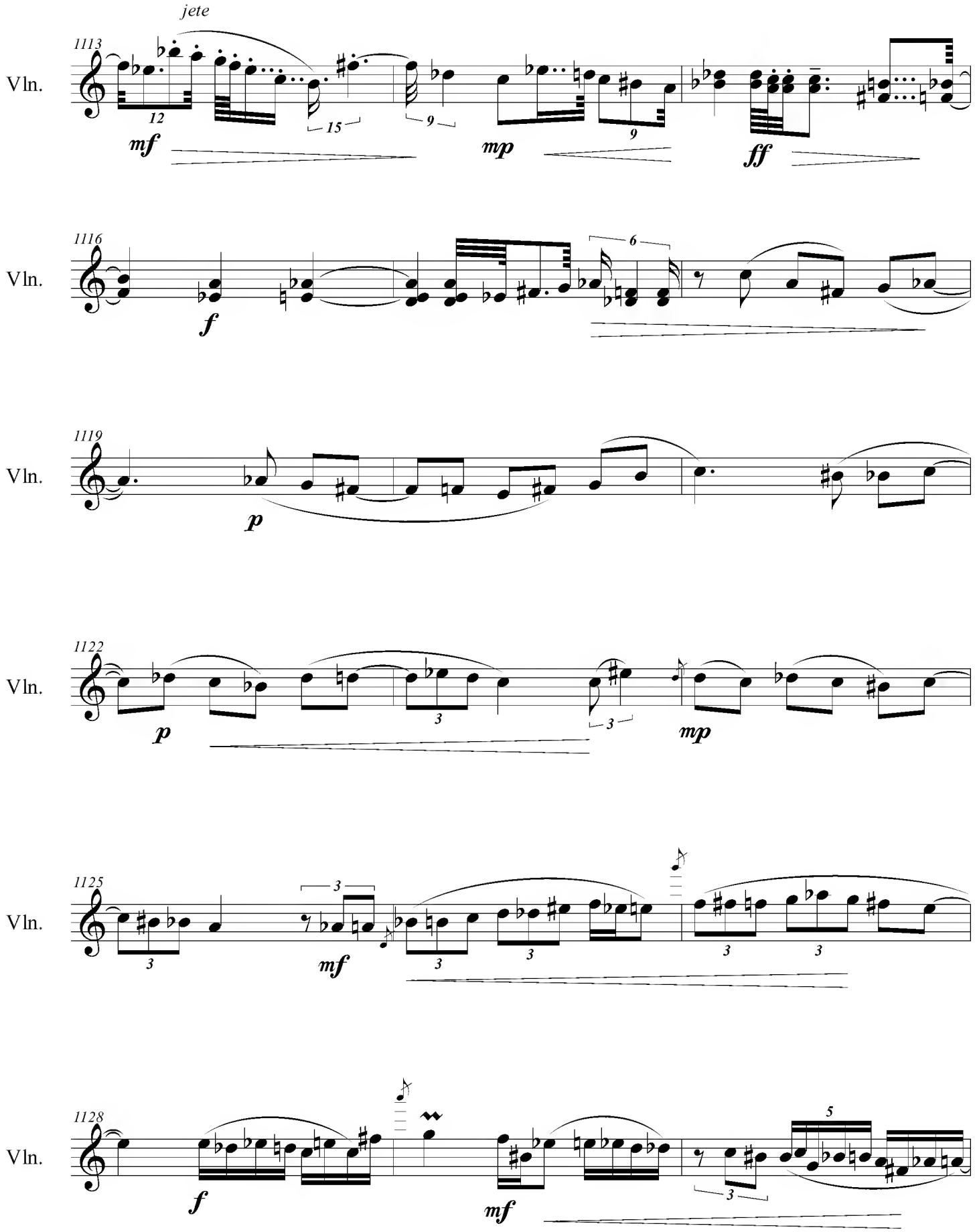

sul Pont.
1041
+22
Vln.
ffff
sul Pont.
+44
ord.
+55
1044
7
7
Vln.
fff
ff
1047
tr
Trill against any note you wish
7
tr
Vln.
ffff
mf
1050
-33
-22
Vln.
f
ff
1053
6
+33
+44
Vln.
mf
ff
sul Pont.
1056
5
1/1
Vln.

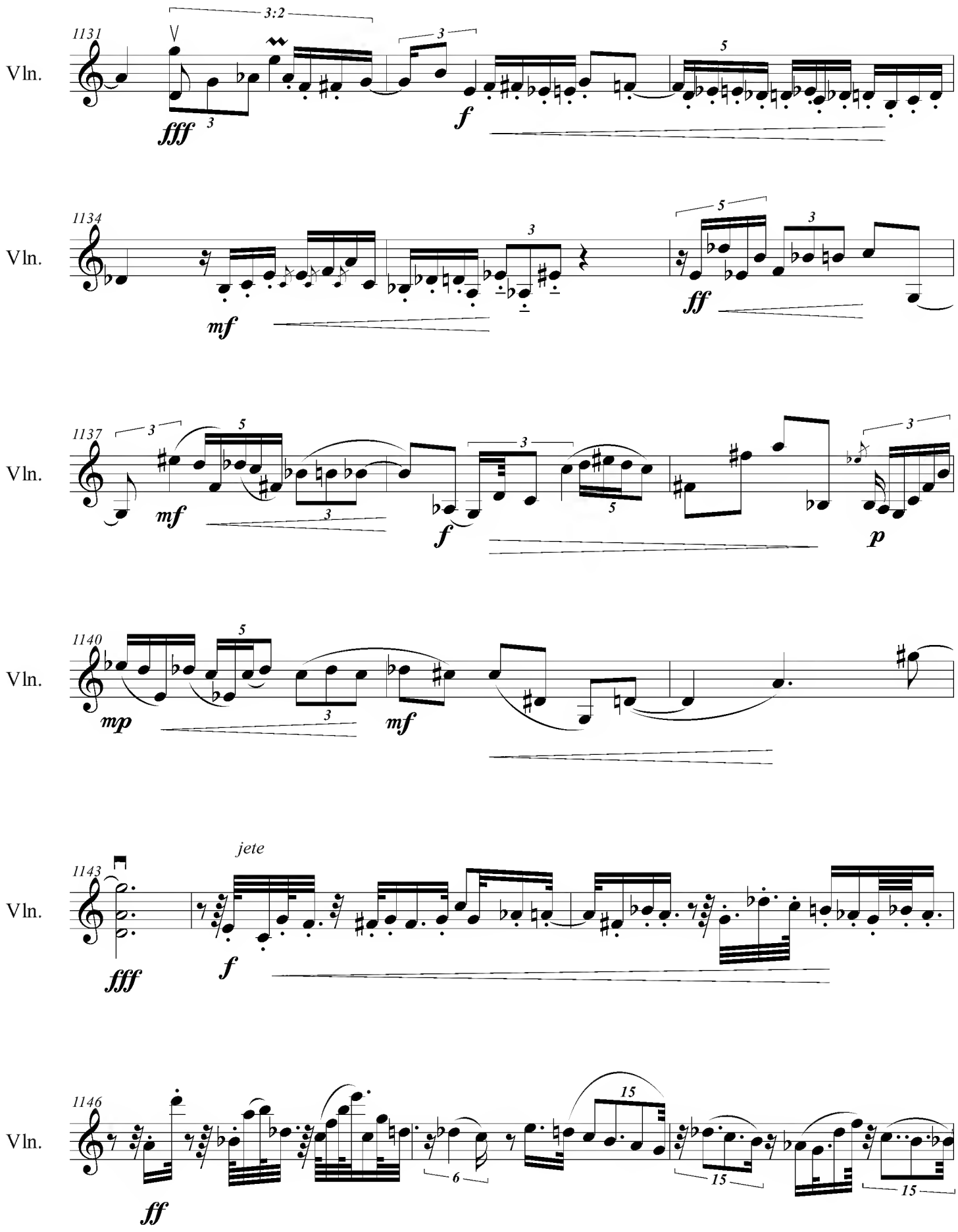

1059
-11
6
Vln.
mf
f
1062
-11
+33
7
Vln.
mf
mf
mp
1065
-11
+22
+78
Vln.
fz
fp
mf
1068
+22
+33
Vln.
ff
mp
f
1071
-11
-11
Vln.
ff
p
mf
1074
+33
+55
-33
Vln.
f

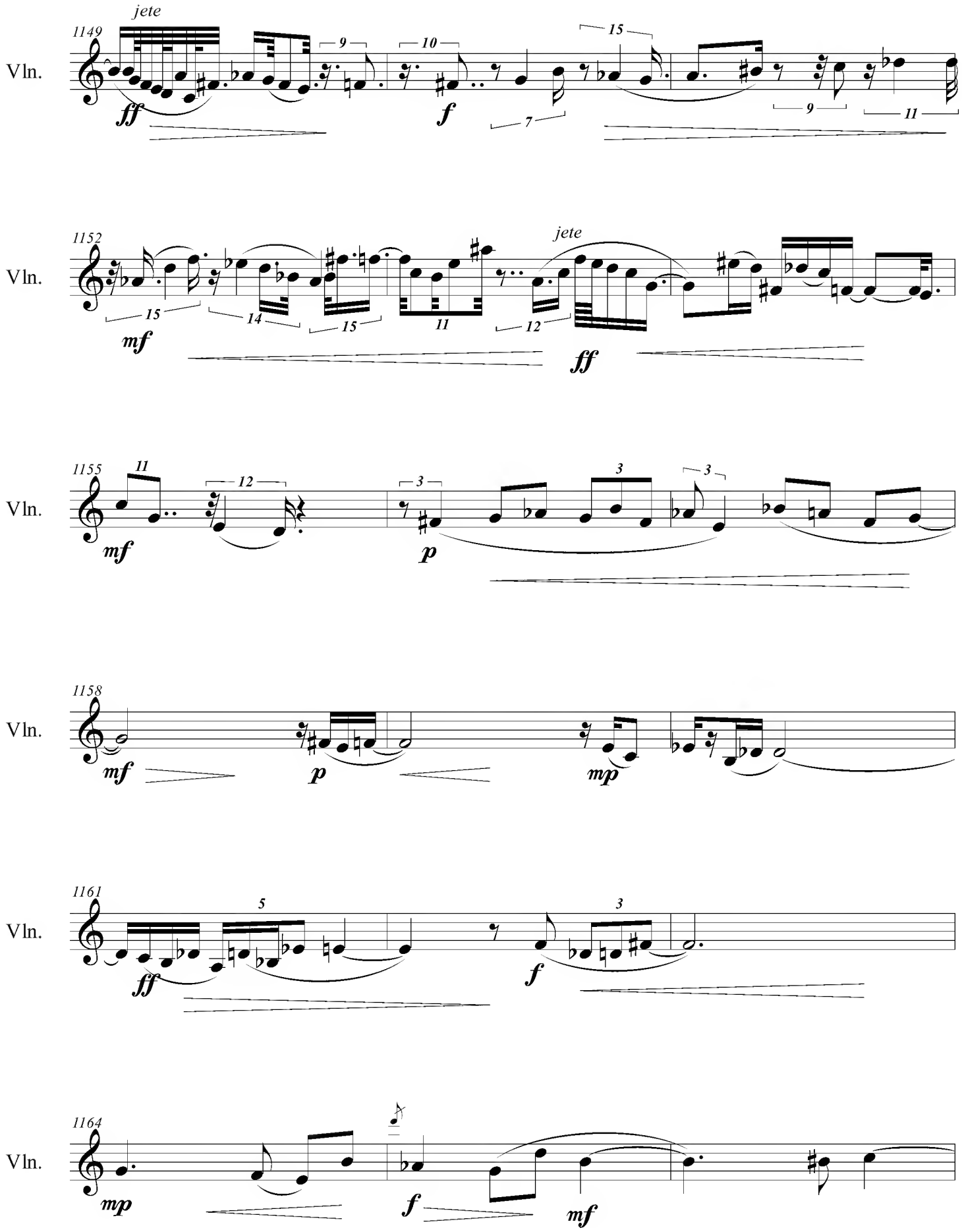

1077
+11
+44
-11
Vln.
mf
f
1080
+55
+44
+44
+22
7
Vln.
ff
f
mf
1083
+22
-11
+44
7
+44
Vln.
mp
ff
1086
-11
6
+44
-22
Vln.
f
fff
1089
+44
+55
7
Open
Vln.
ff
1092
+11
+55
-33
Vln.
fff

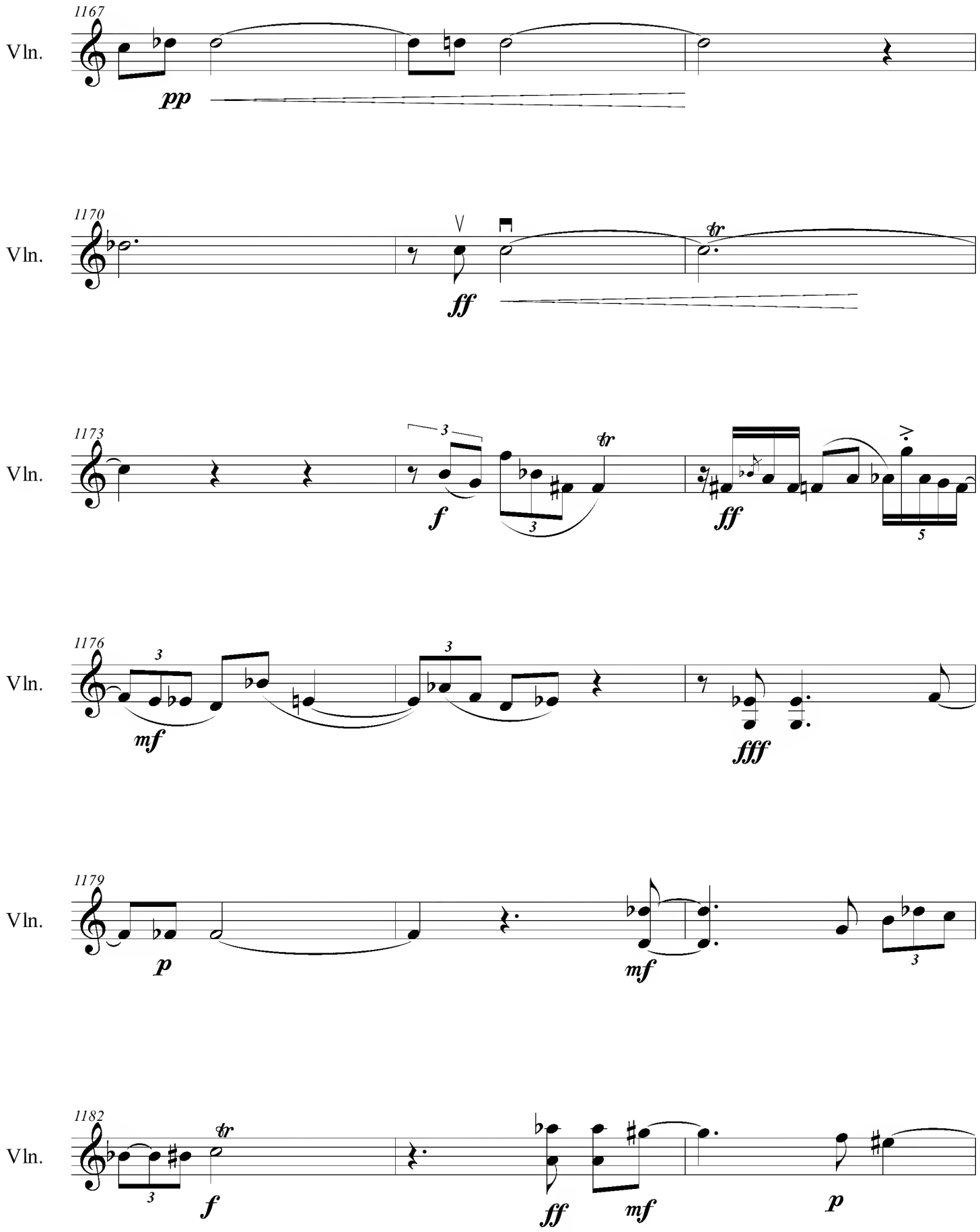

1095
Vln.
+33
+55
Open
sfffz
sul Pont.
1098
Vln.
Open
+11
+55
fff
ffff

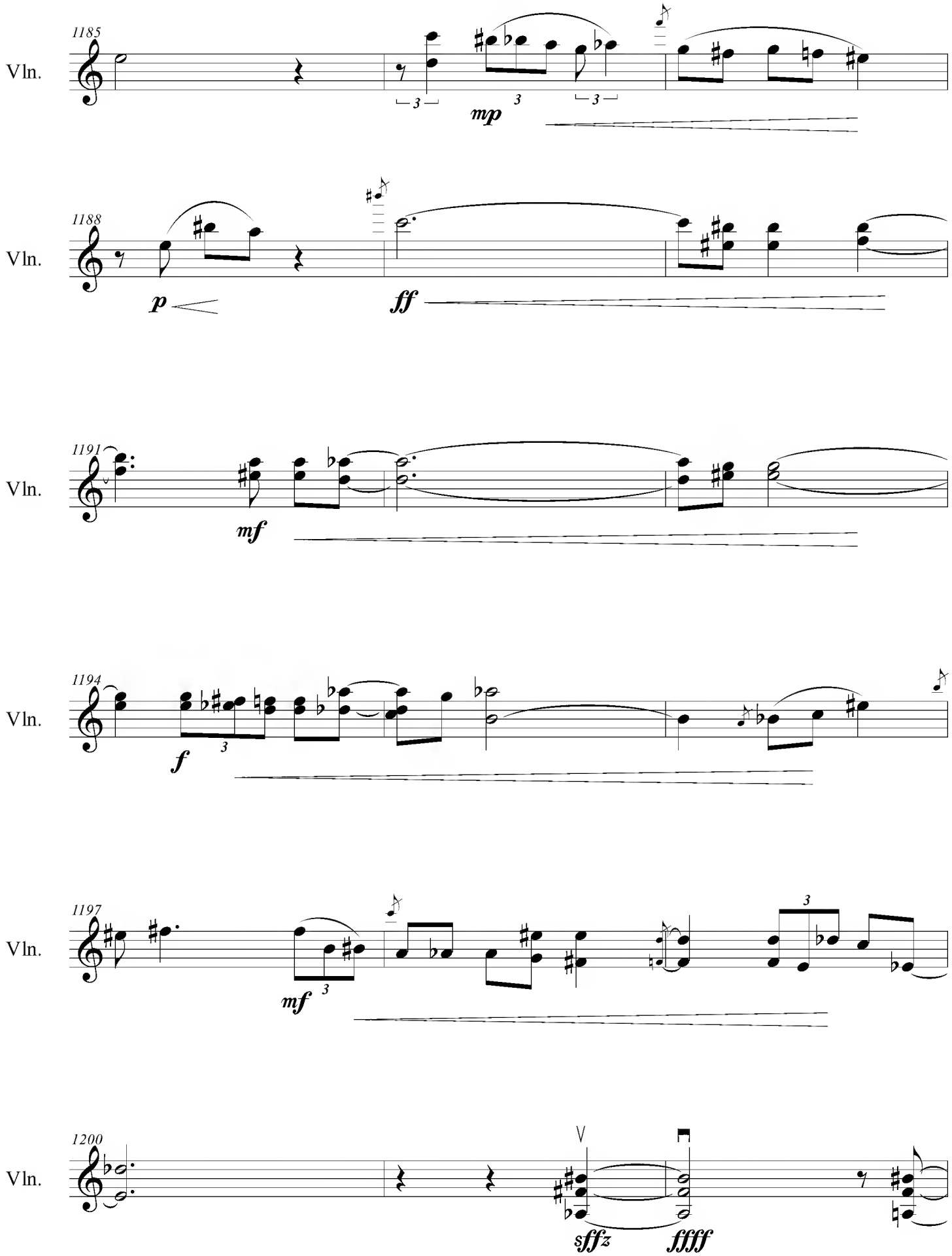

Andante
Tempo (sin(x)) ♩ = 74.16
8va
-33
1101
Vln.
16 edo
16 edo pitches cents found in legend
pp
mf
1104
Vln.
10
f
10
mf
1107
Vln.
10
15
tr
mf
13
ff
13
f
1110
Vln.
mf
ff
mp
11
fz
fz

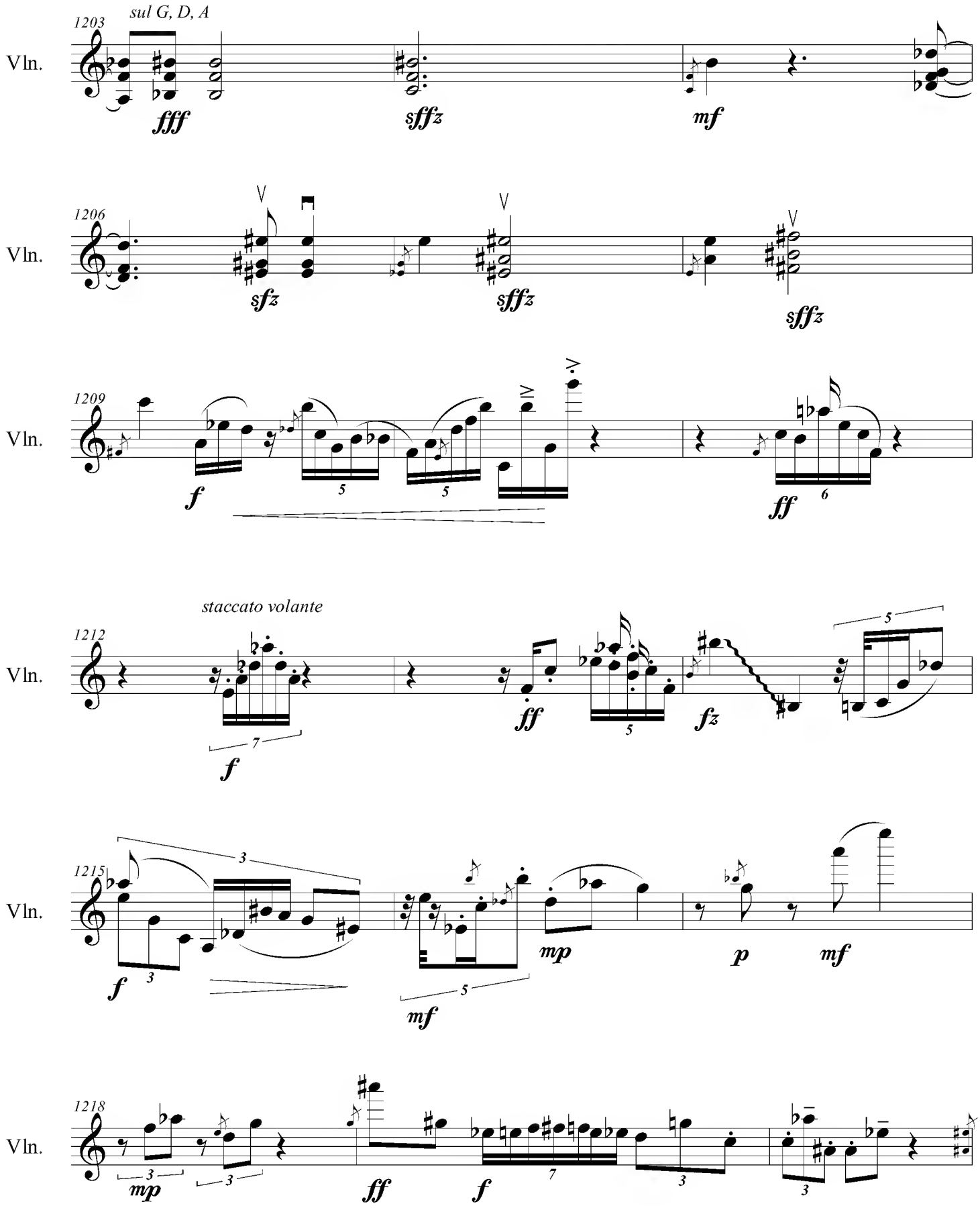

jete
1113
Vln.
12
15
9
9
mf
mp
ff
1116
Vln.
6
f
1119
Vln.
p
1122
Vln.
p
3
3
mp
1125
Vln.
3
3
3
3
3
mf
1128
Vln.
f
mf
3
5

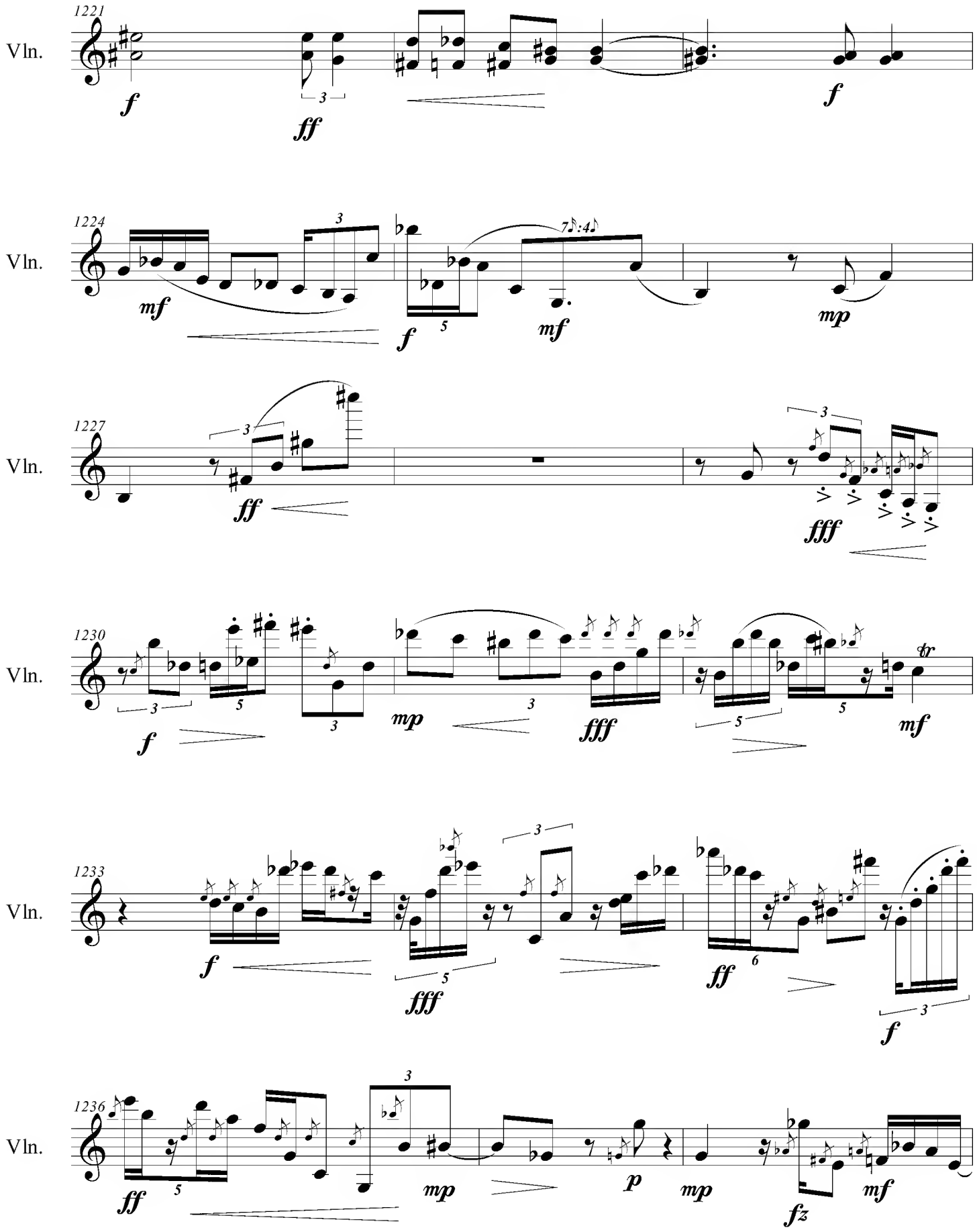

1131
Vln.
3:2
3
5
fff
f
1134
Vln.
3
5
3
mf
ff
1137
Vln.
3
5
mf
3
f
3
5
3
p
1140
Vln.
5
3
mp
mf
1143
Vln.
jete
fff
f
1146
Vln.
15
6
15
15
ff

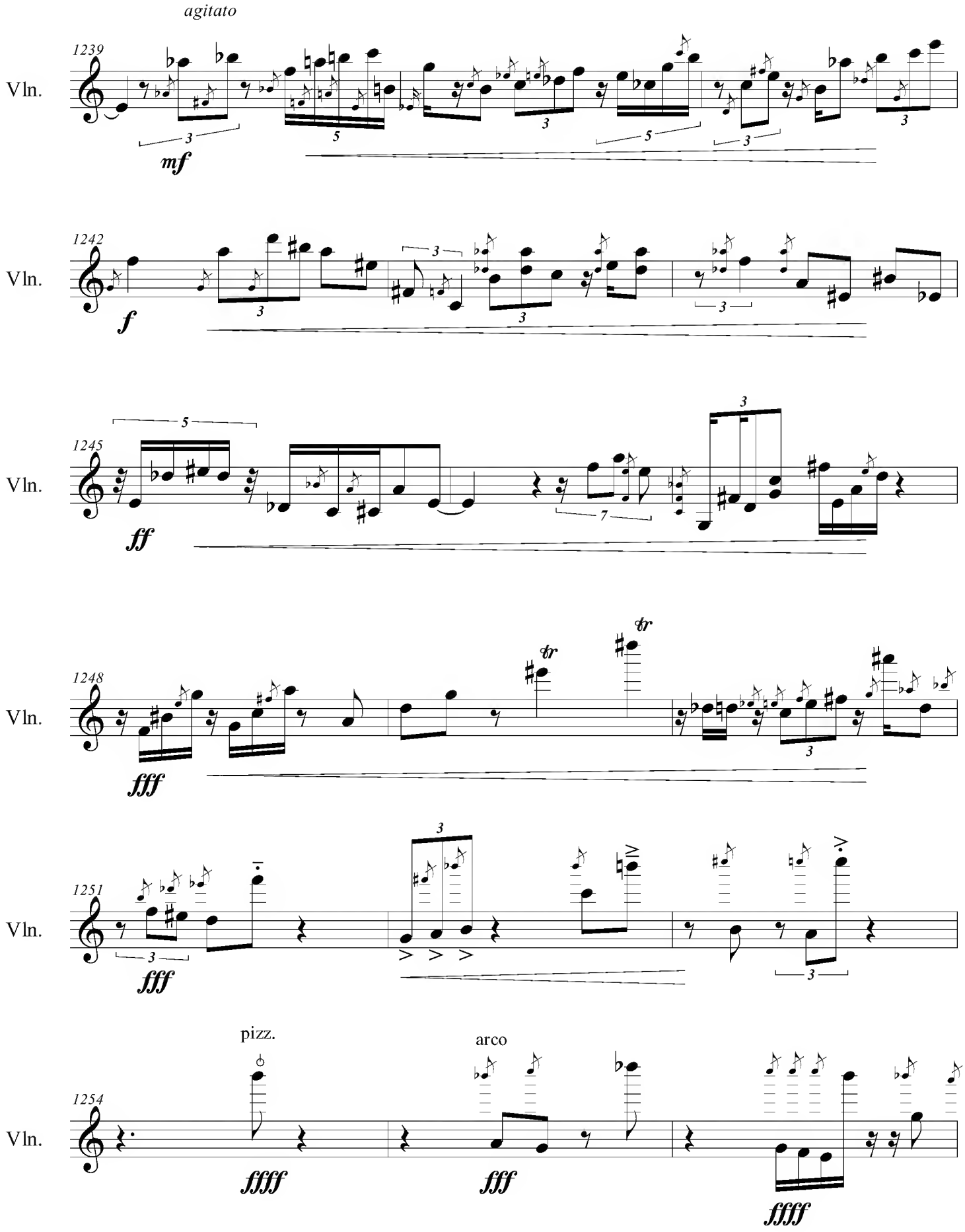

1149
jete
Vln.
ff
9
10
f
7
15
9
11
1152
Vln.
15
mf
14
15
11
12
jete
ff
1155
Vln.
11
12
mf
3
p
3
3
1158
Vln.
mf
p
mp
1161
Vln.
5
ff
f
3
1164
Vln.
mp
f
mf

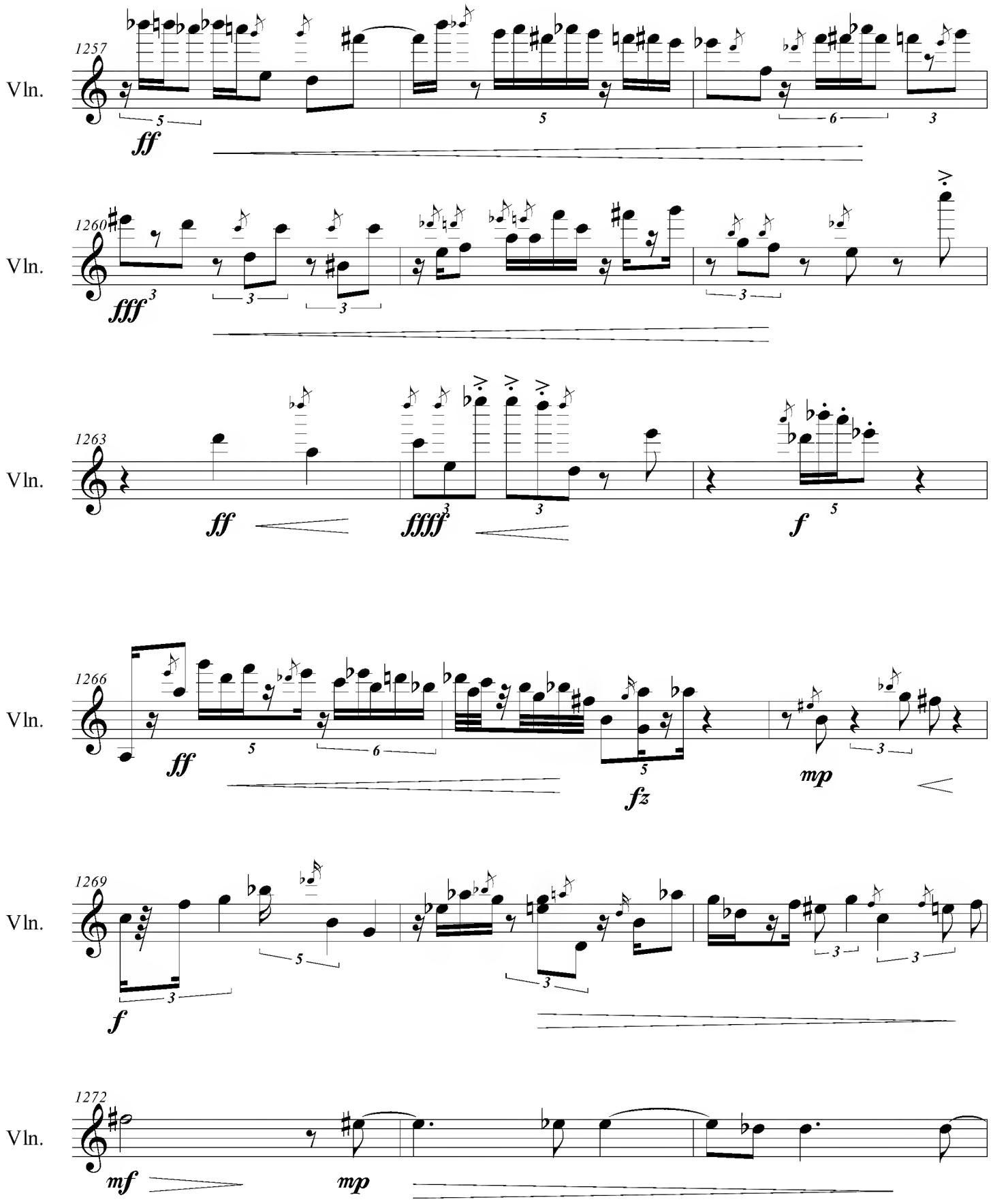

1167
Vln.
pp
1170
Vln.
ff
1173
Vln.
f
ff
1176
Vln.
mf
fff
1179
Vln.
p
mf
1182
Vln.
f
ff
mf
p

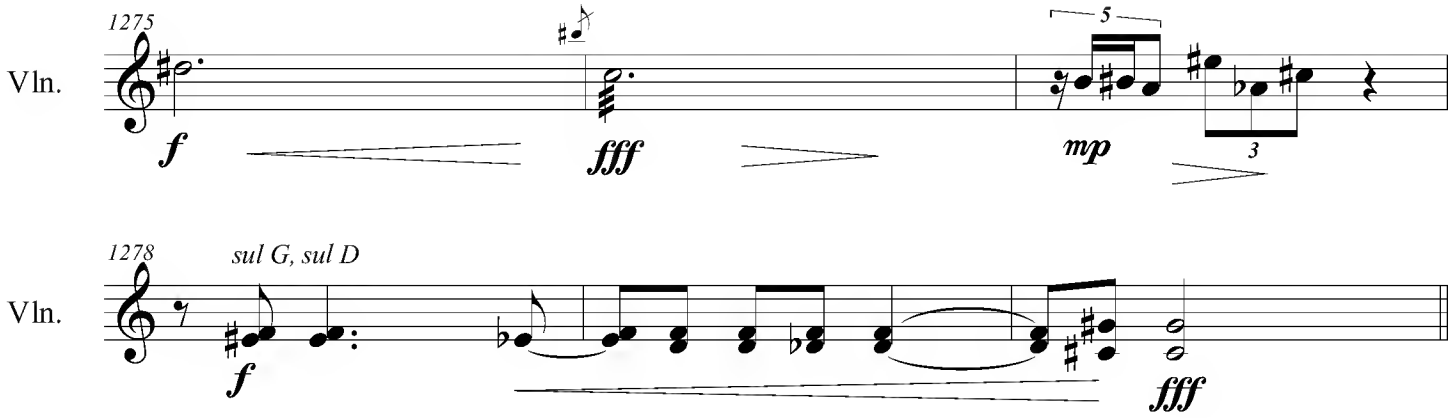

1185
Vln.
mp
1188
Vln.
p
ff
1191
Vln.
mf
1194
Vln.
f
1197
Vln.
mf
1200
Vln.
sffz
ffff


1203
sul G, D, A
Vln.
fff
sffz
mf
1206
Vln.
sfz
sffz
sffz
1209
Vln.
f
ff
staccato volante
1212
Vln.
f
ff
fz
1215
Vln.
f
mp
p
mf
mf
1218
Vln.
mp
ff
f


1221
Vln.
1224
Vln.
1227
Vln.
1230
Vln.
1233
Vln.
1236
Vln.

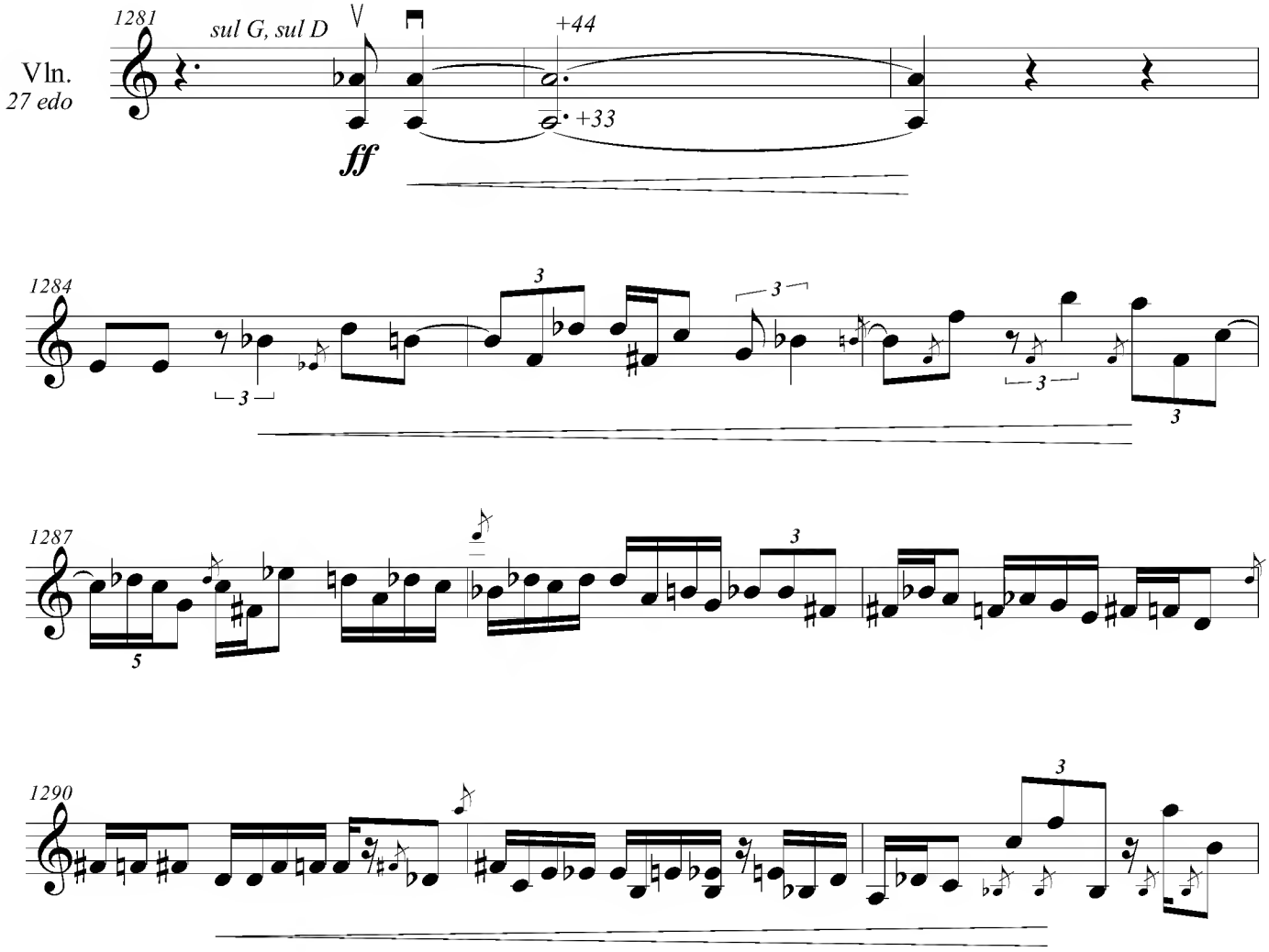

agitato
1239
Vln.
mf
1242
Vln.
f
1245
Vln.
ff
1248
Vln.
fff
1251
Vln.
fff
1254
Vln.
pizz.
arco
ffff
fff
ffff

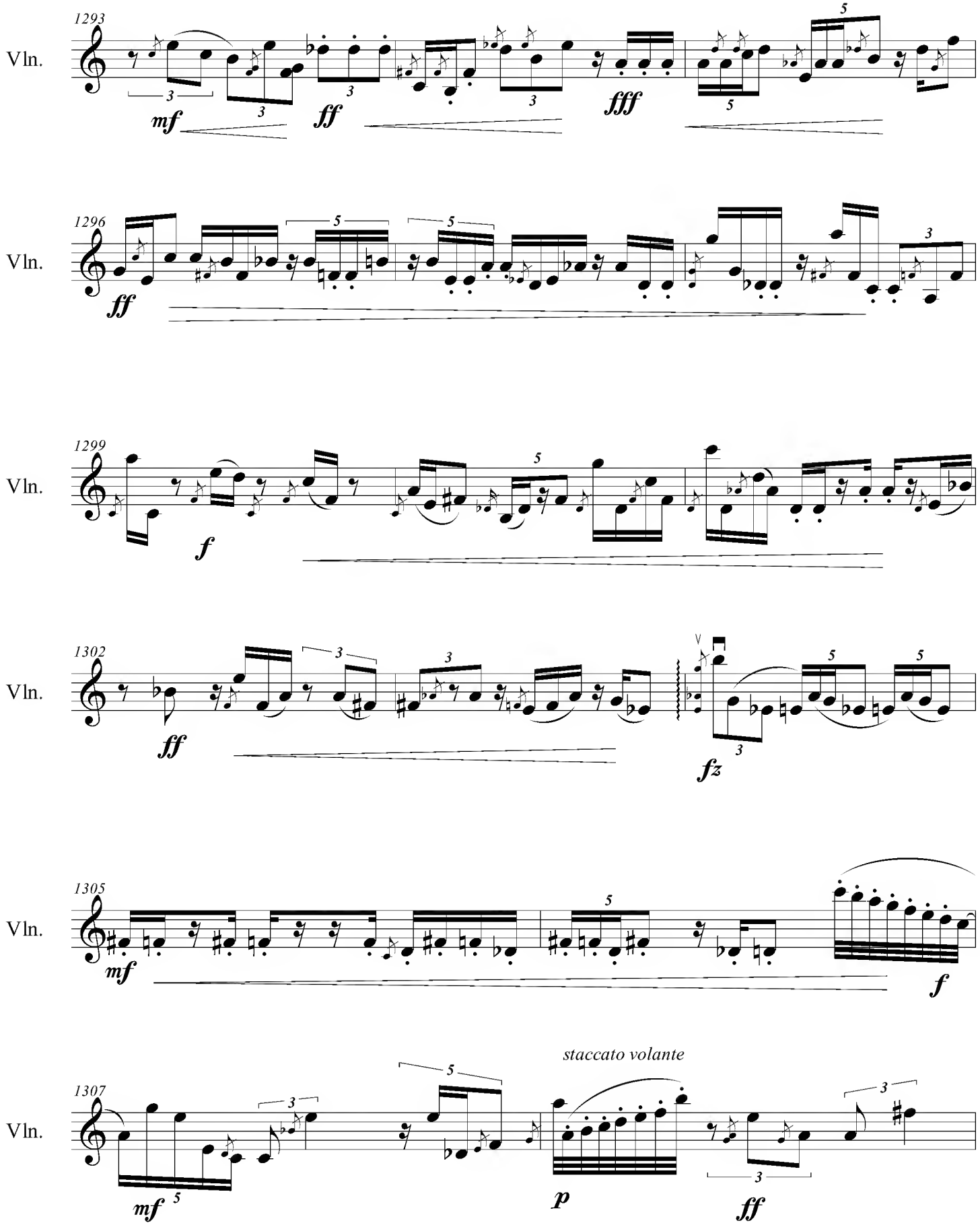

1257
Vln.
ff
1260
Vln.
fff
1263
Vln.
ff
ffff
f
1266
Vln.
ff
fz
mp
1269
Vln.
f
1272
Vln.
mf
mp

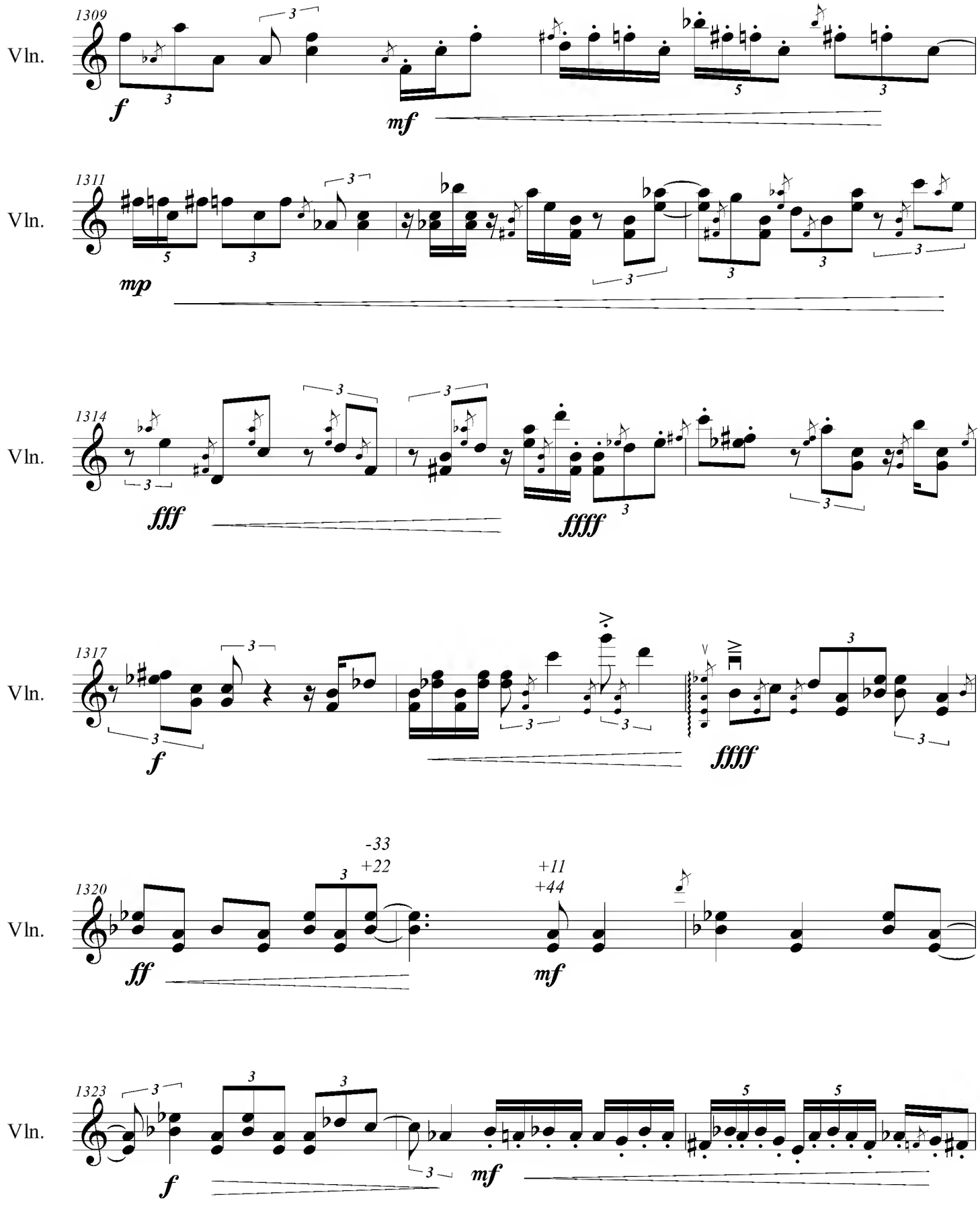


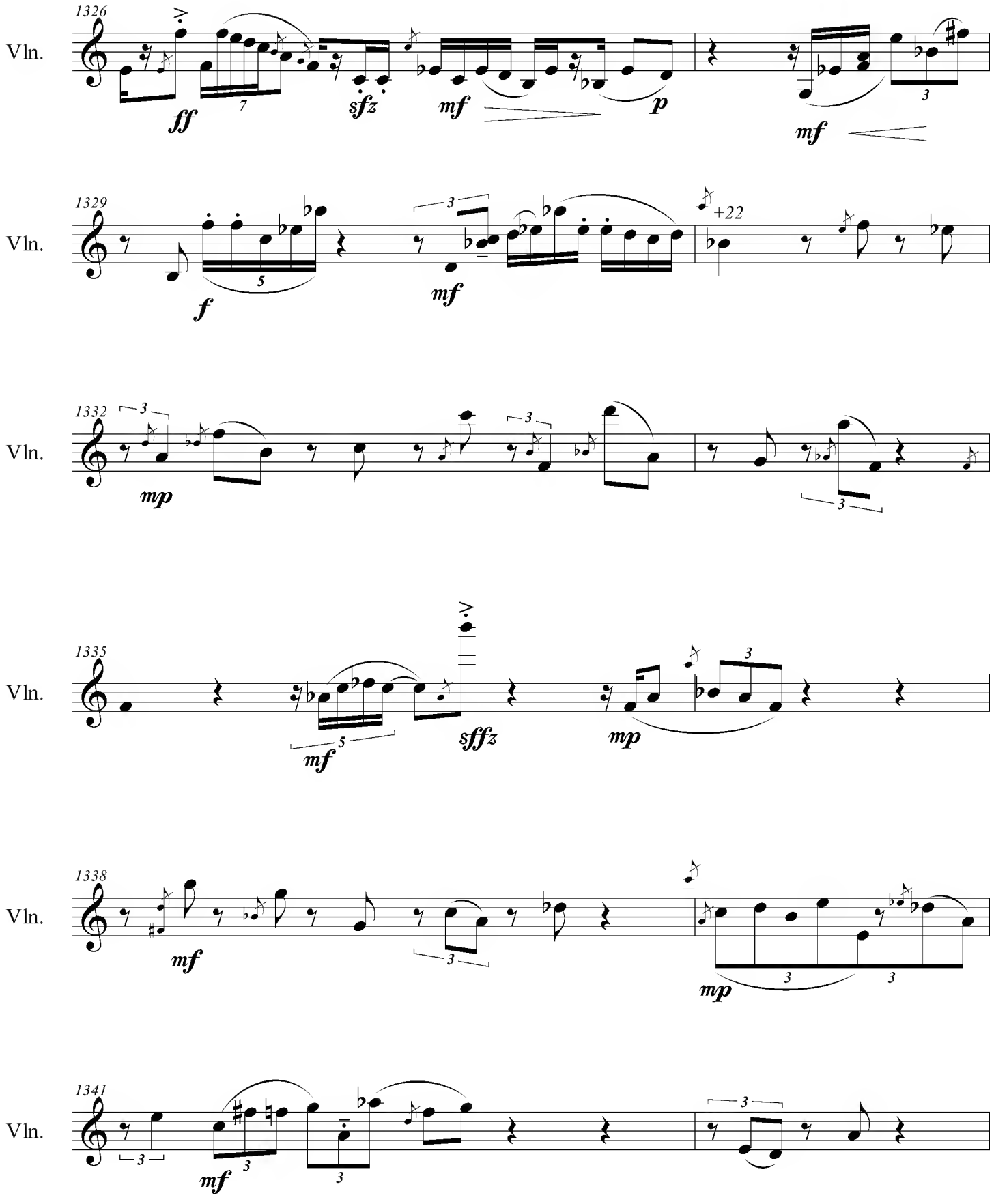
Primo Tempo

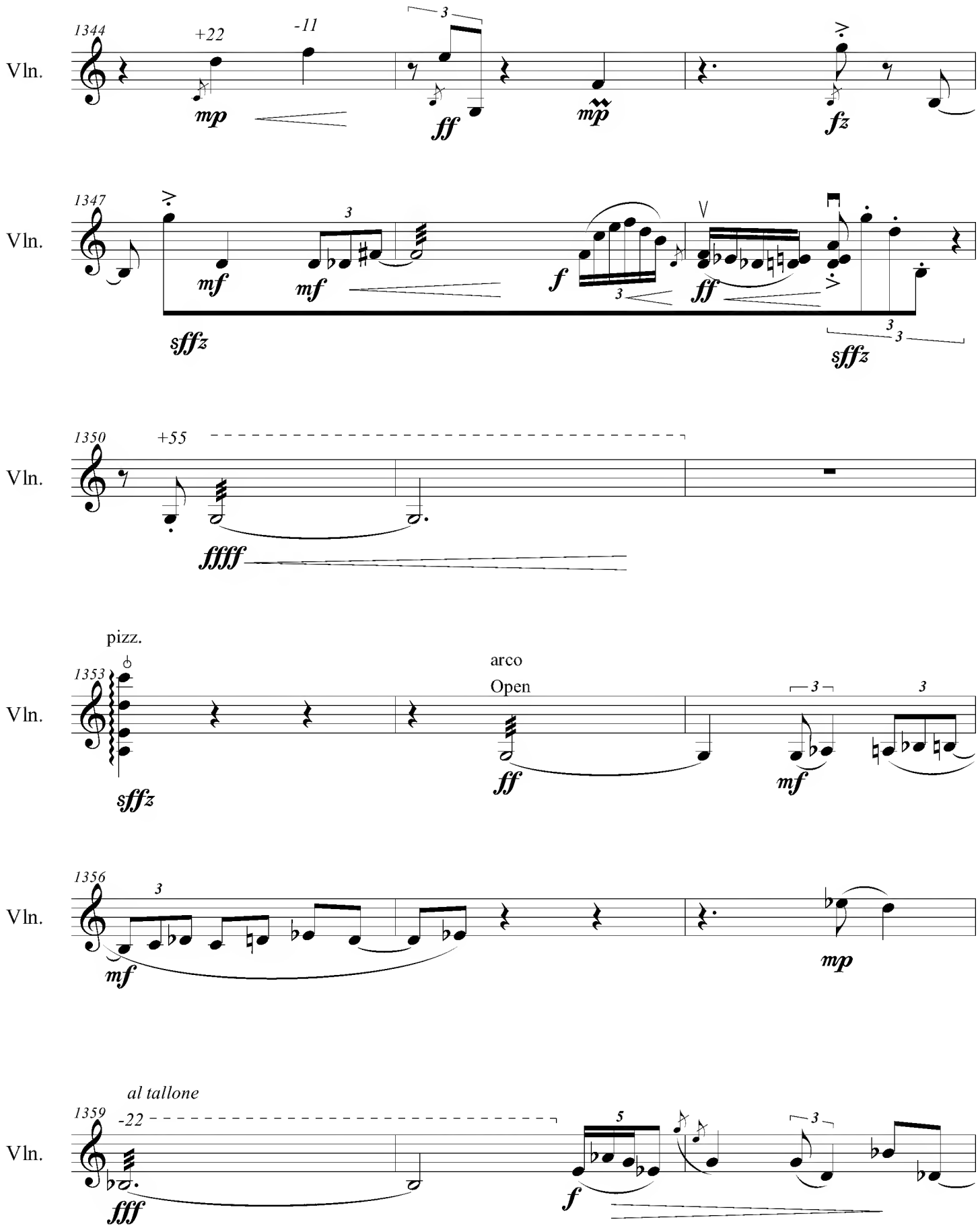
Allegro Assai ♩ = 163.1

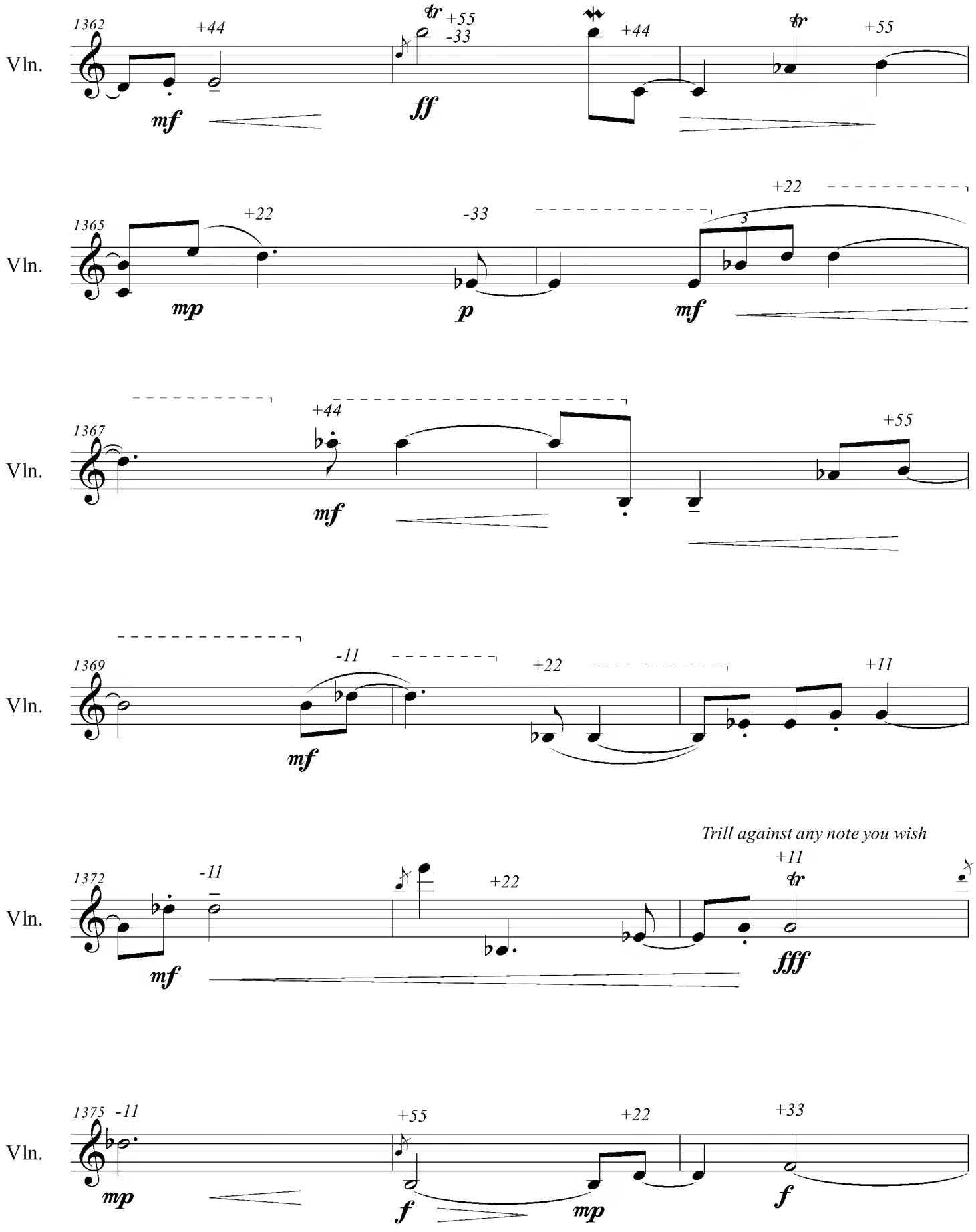


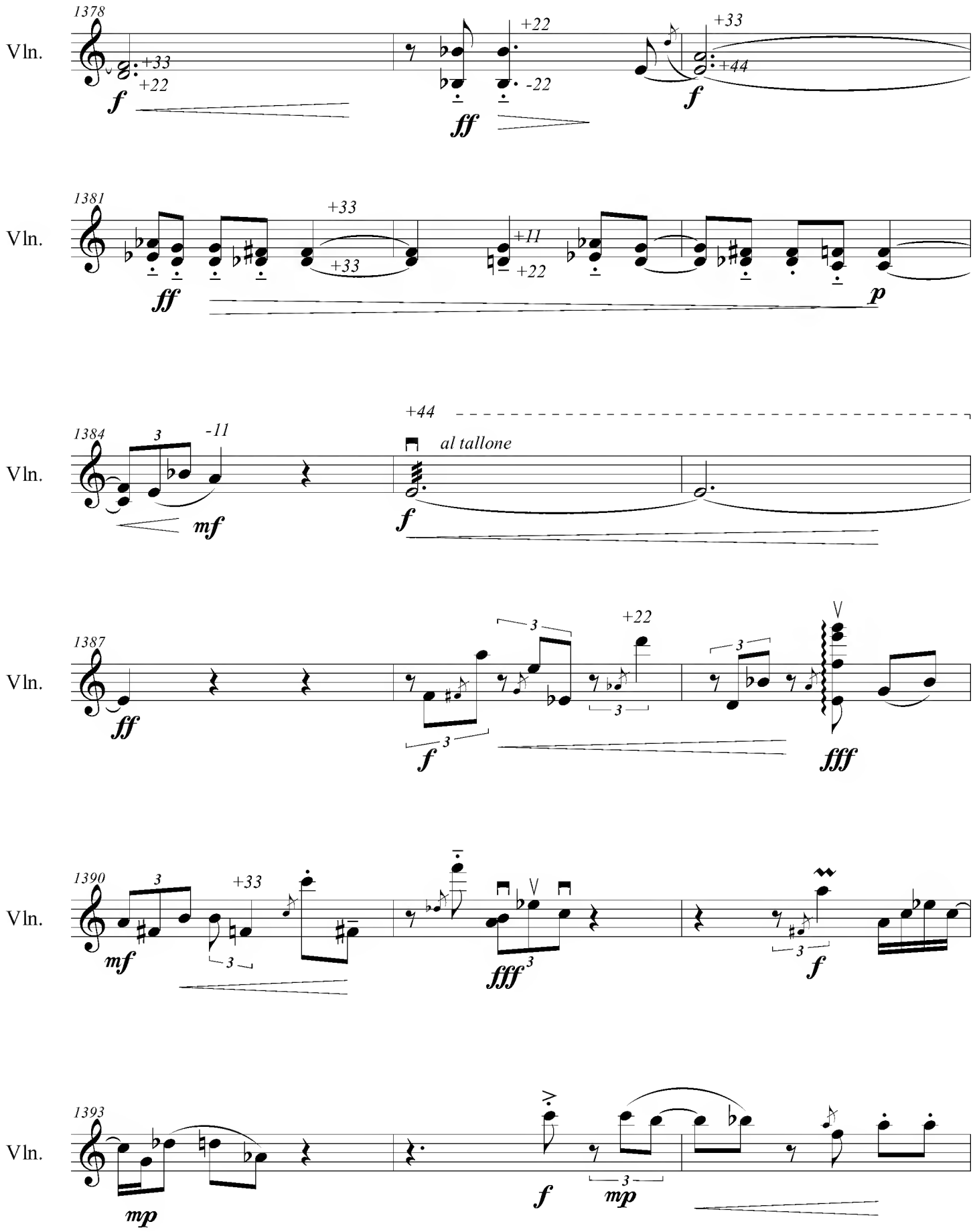

1293
Vln.
mf
ff
fff
1296
Vln.
ff
1299
Vln.
f
1302
Vln.
ff
fz
1305
Vln.
mf
f
staccato volante
1307
Vln.
mf
p
ff

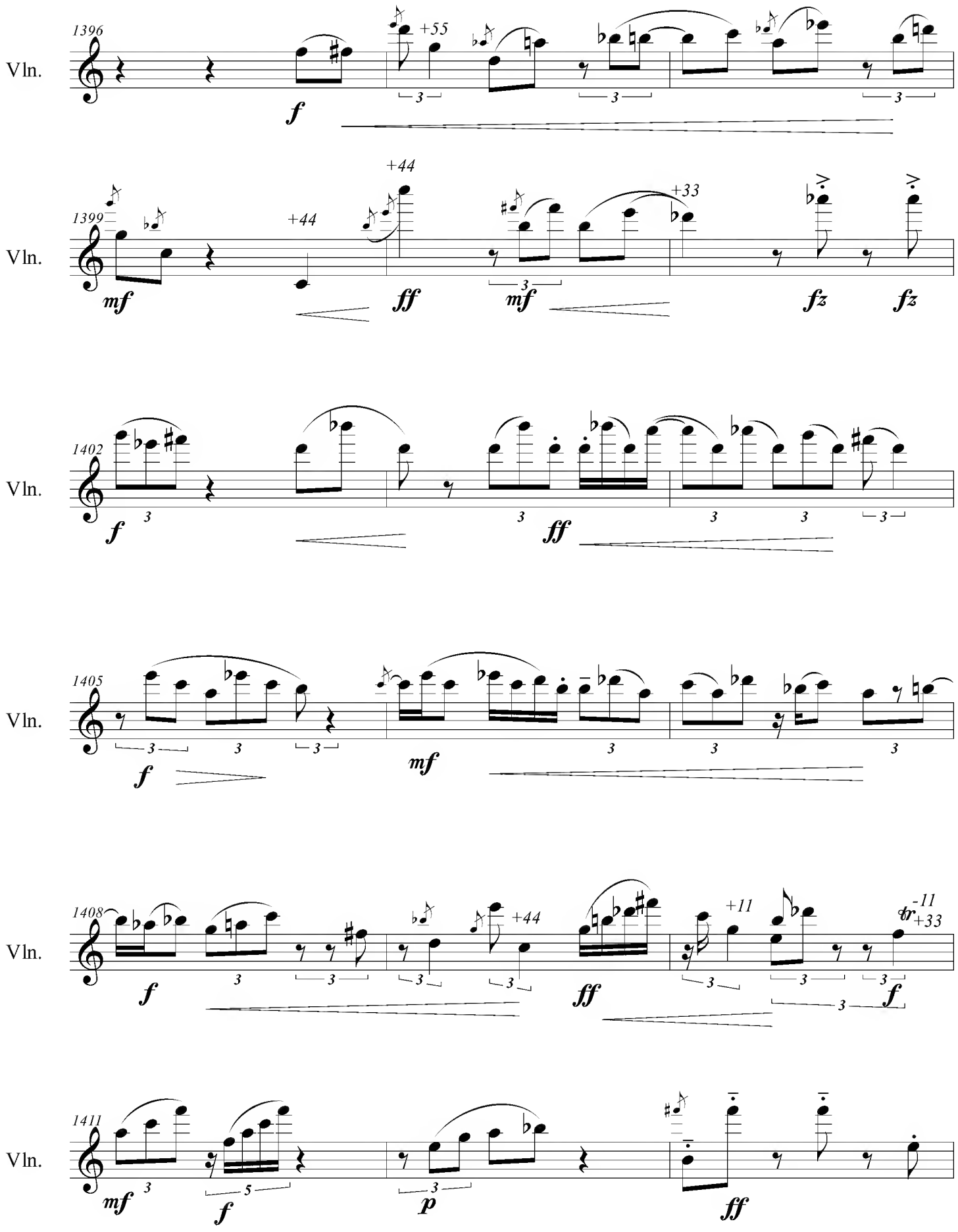

1309
Vln.
f
mf
1311
Vln.
mp
1314
Vln.
fff
ffff
1317
Vln.
f
ffff
1320
Vln.
-33
+22
+11
+44
ff
mf
1323
Vln.
f
mf

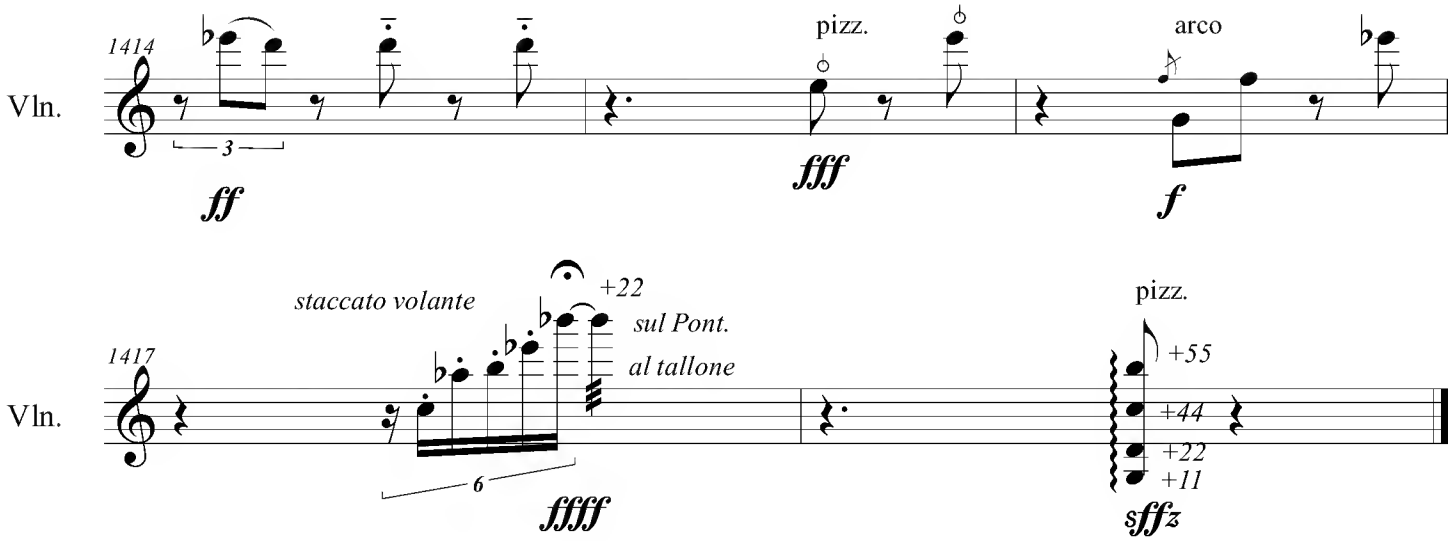

1326
Vln.
ff
sfz
mf
p
mf
1329
Vln.
f
mf
+22
1332
Vln.
mp
1335
Vln.
mf
sffz
mp
1338
Vln.
mf
mp
1341
Vln.
mf


Vln.
1344
+22
-11
mp
ff
mp
fz
Vln.
1347
mf
mf
sffz
f
ff
sffz
Vln.
1350
+55
ffff
Vln.
pizz.
1353
sffz
arco
Open
ff
mf
Vln.
1356
mf
mp
Vln.
al tallone
1359
-22
fff
f


Vln.
1362
+44
+55
-33
+44
+55
mf
ff
Vln.
1365
+22
-33
+22
3
mp
p
mf
Vln.
1367
+44
+55
mf
Vln.
1369
-11
+22
+11
mf
Trill against any note you wish
Vln.
1372
-11
+22
+11
mf
fff
Vln.
1375
-11
+55
+22
+33
mp
f
mp
f


1378
Vln.
+33
+22
f
+22
-22
ff
+33
+44
f
1381
Vln.
ff
+33
+33
+11
+22
p
1384
Vln.
3
-11
mf
+44
al tallone
f
1387
Vln.
ff
3
+22
3
f
3
3
fff
1390
Vln.
3
+33
mf
3
fff
3
f
1393
Vln.
mp
f
3
mp


1396
Vln.
f
+55
1399
mf
+44
ff
mf
+33
fz
fz
1402
f
ff
1405
f
mf
1408
f
+44
ff
+11
-11
+33
f
1411
mf
f
p
ff


1414
Vln.
3
ff
pizz.
fff
arco
f
1417
Vln.
staccato volante
+22
sul Pont.
al tallone
6
ffff
pizz.
+55
+44
+22
+11
sffz

Part II; Pi

String Quartet IV

No vibrato

only half and whole notes will be 31tet

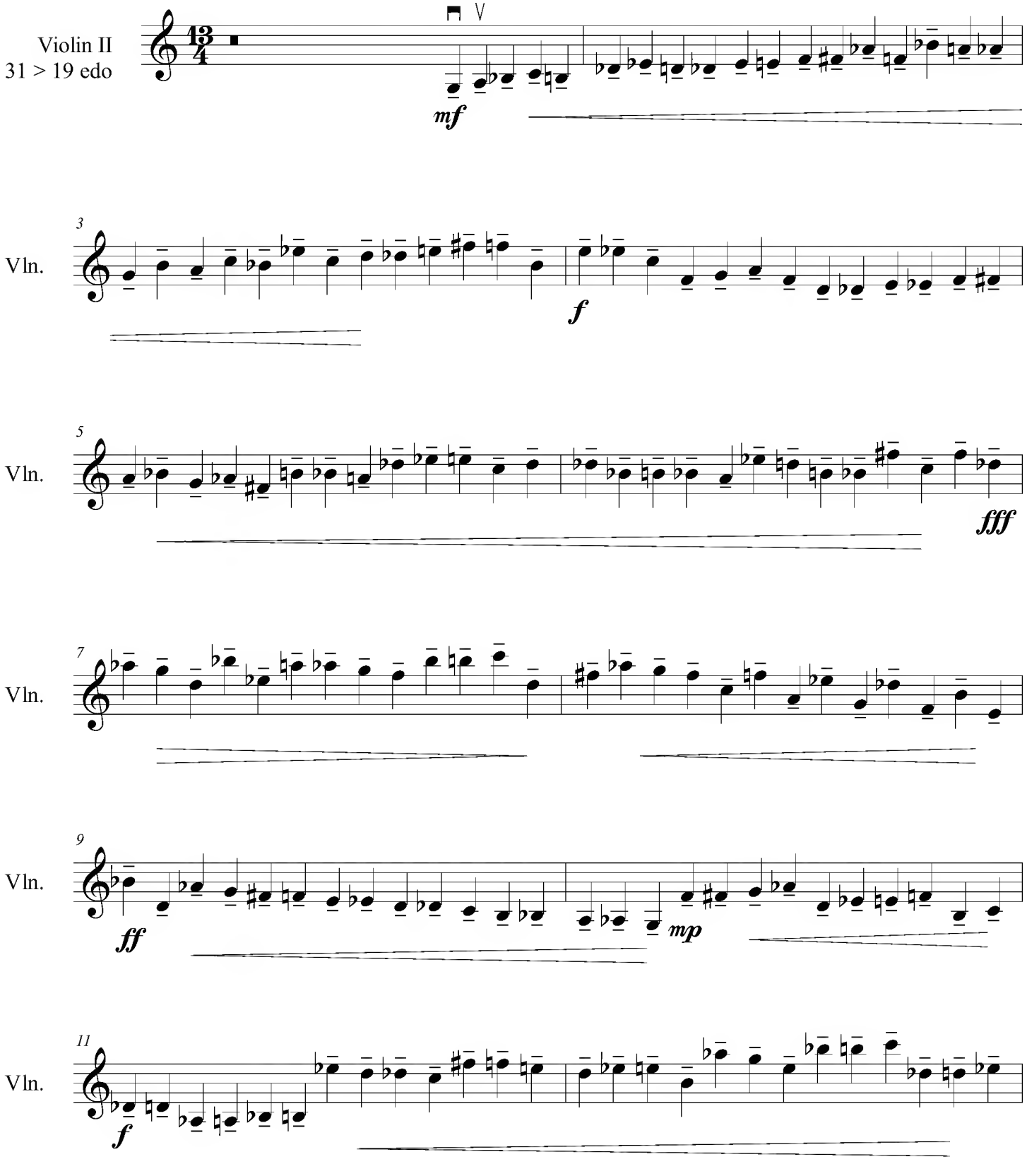
Irrational

Peter Thoegersen

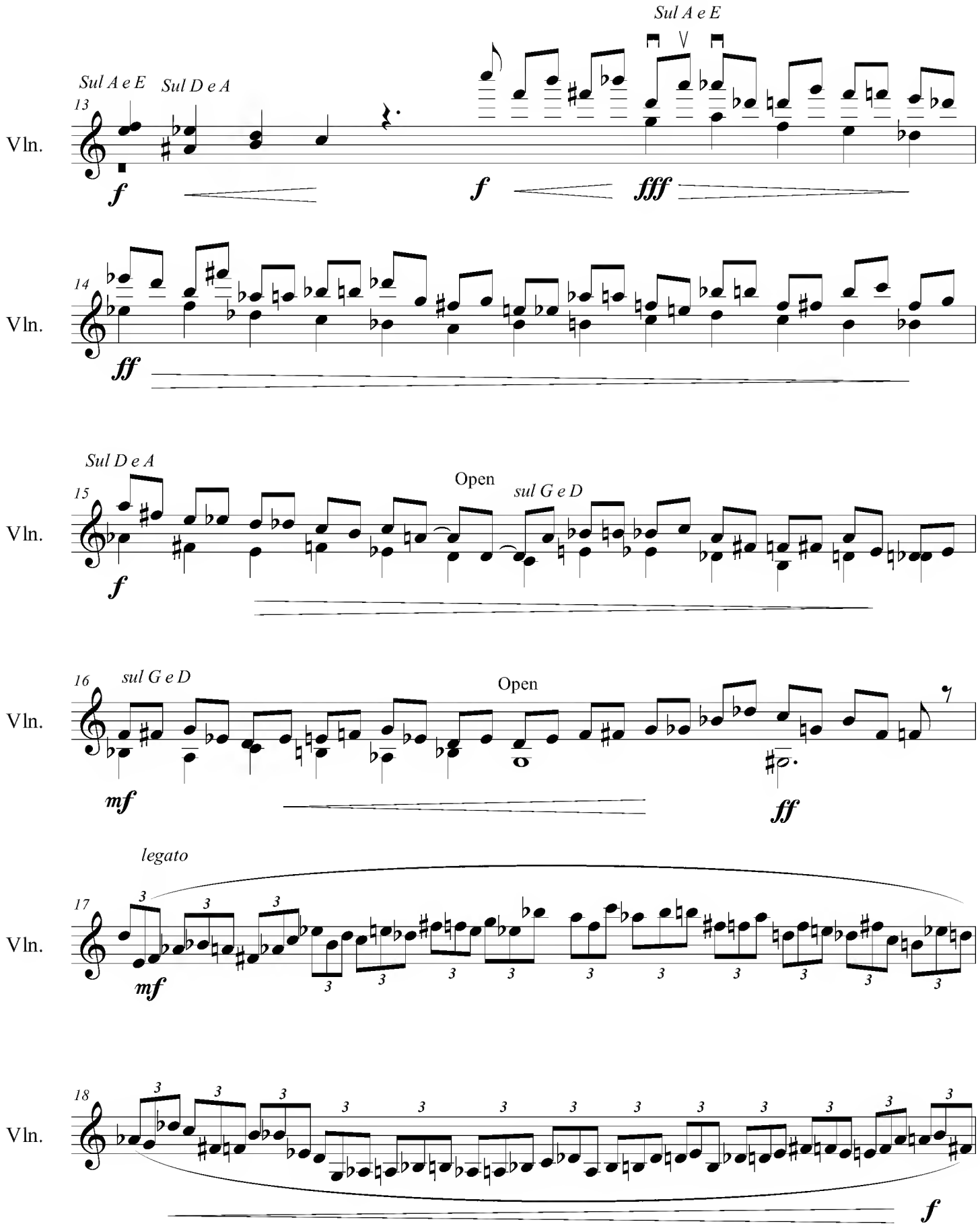
Presto ♩ = 188.5

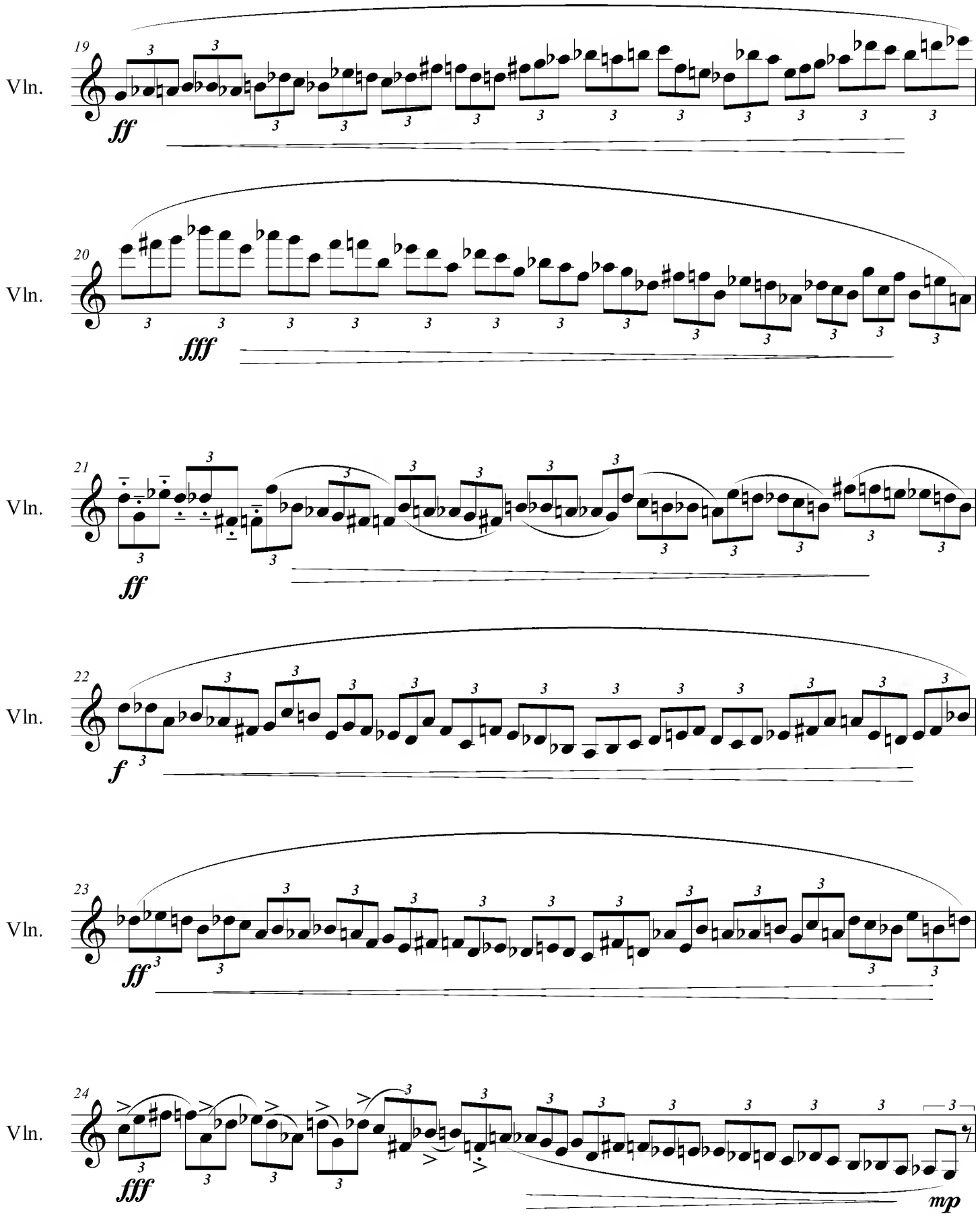
detache

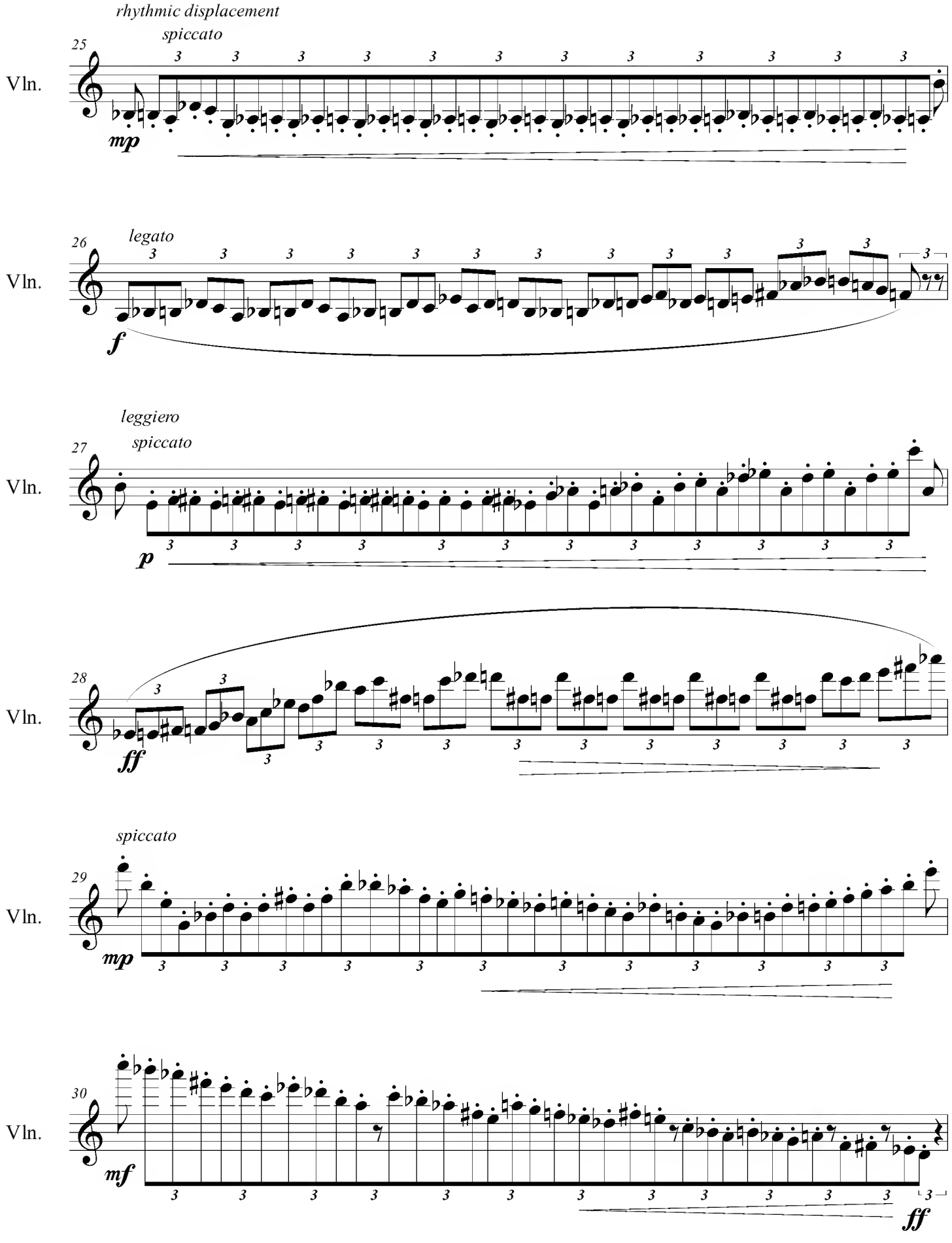
Violin II
31 > 19 edo



©2018


Sul A e E
Sul D e A
13
Vln.
f
f
Sul A e E
fff
14
Vln.
ff
Sul D e A
15
Vln.
f
Open
sul G e D
16
sul G e D
Vln.
mf
Open
ff
legato
17
Vln.
mf
18
Vln.
f


19
Vln.
ff
20
Vln.
fff
21
Vln.
ff
22
Vln.
f
23
Vln.
ff
24
Vln.
fff
mp


rhythmic displacement
spiccato
25
Vln.
mp
legato
26
Vln.
f
leggiero
spiccato
27
Vln.
p
28
Vln.
ff
spiccato
29
Vln.
mp
30
Vln.
mf
ff

forget tuning and go for rhythmic accuracy in strict tempo

31 *spiccato*

Vln. *mf*

32

Vln. *f*

spiccato *jete*

33

Vln. *ff*

34

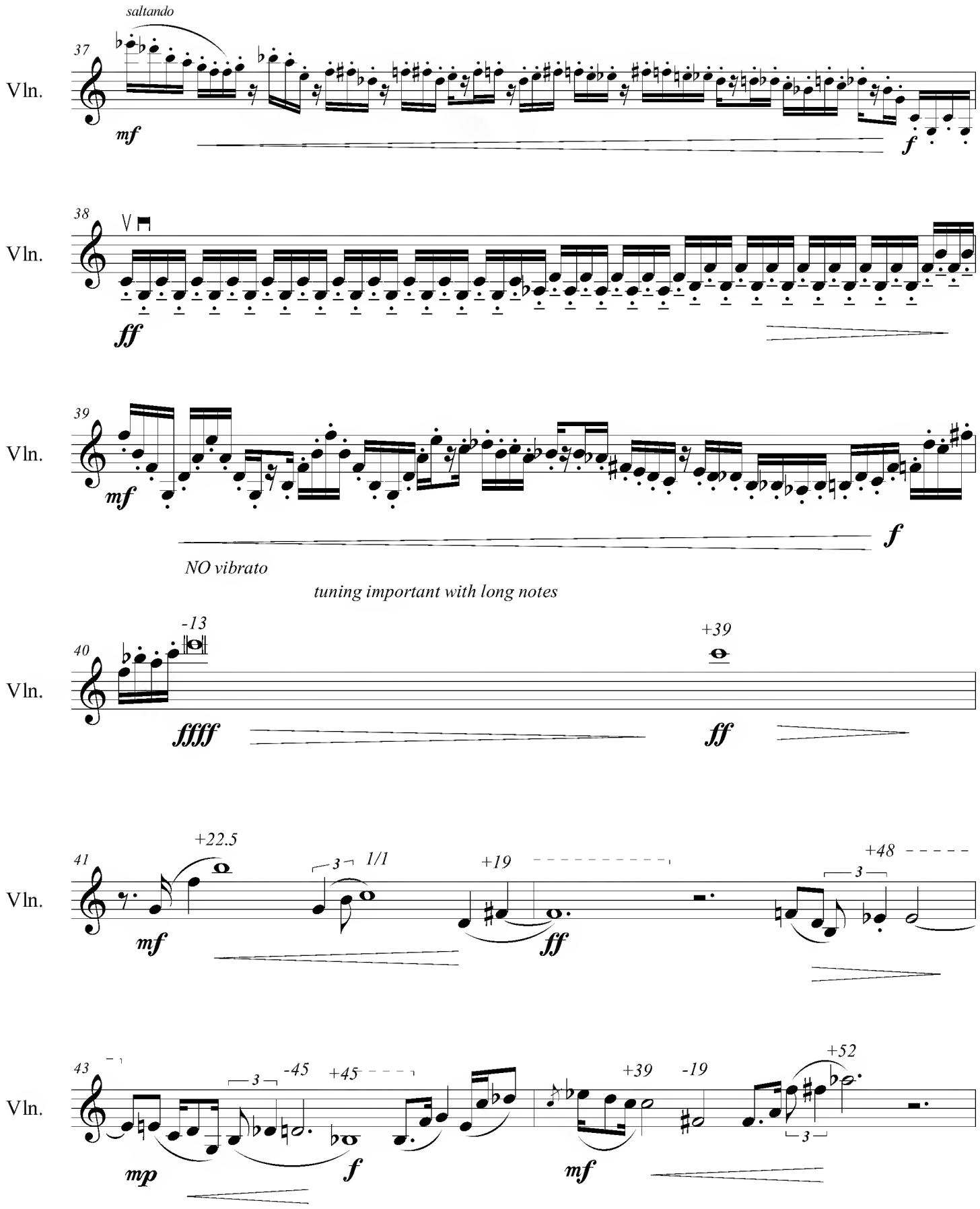
Vln. *f*

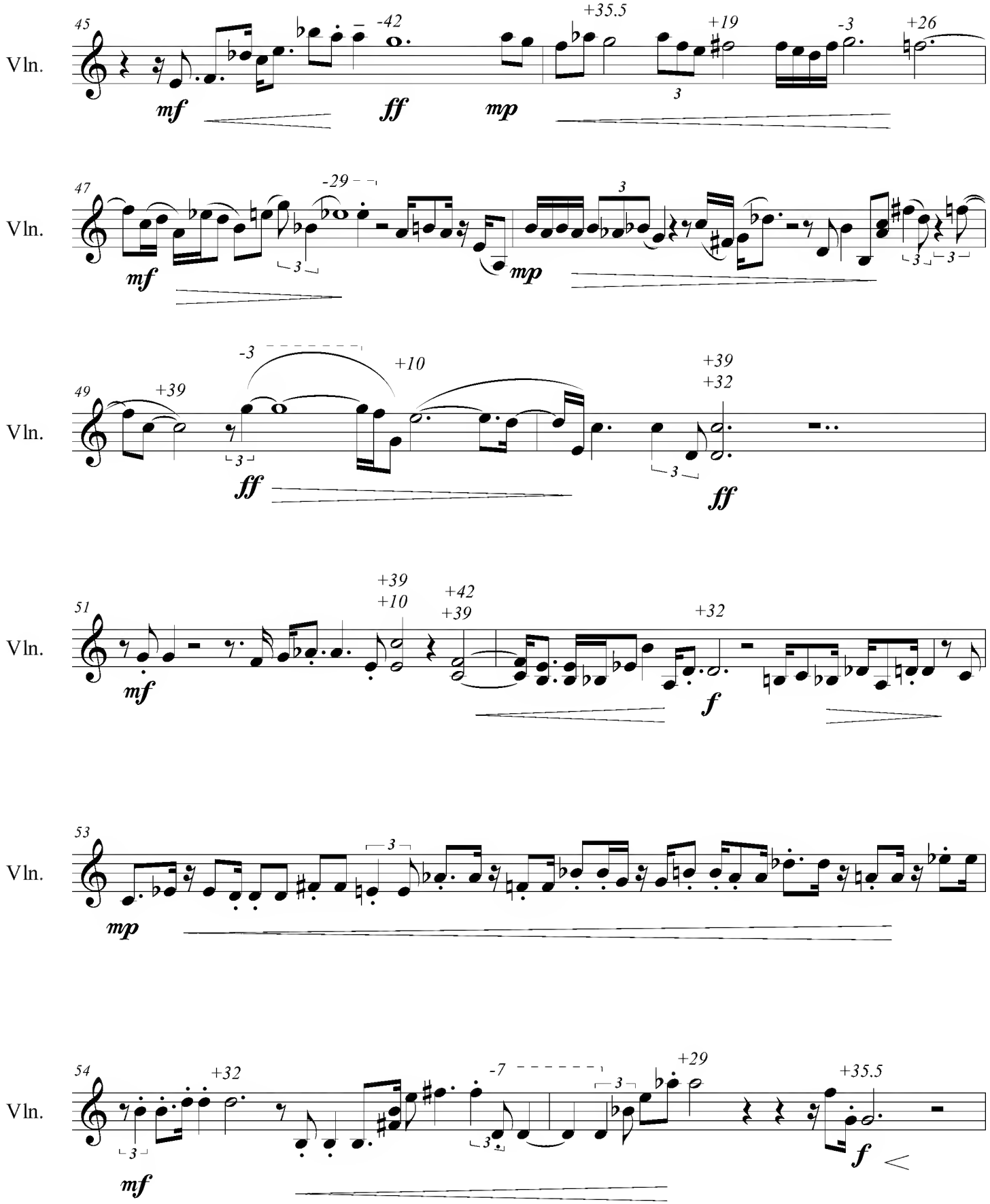
35

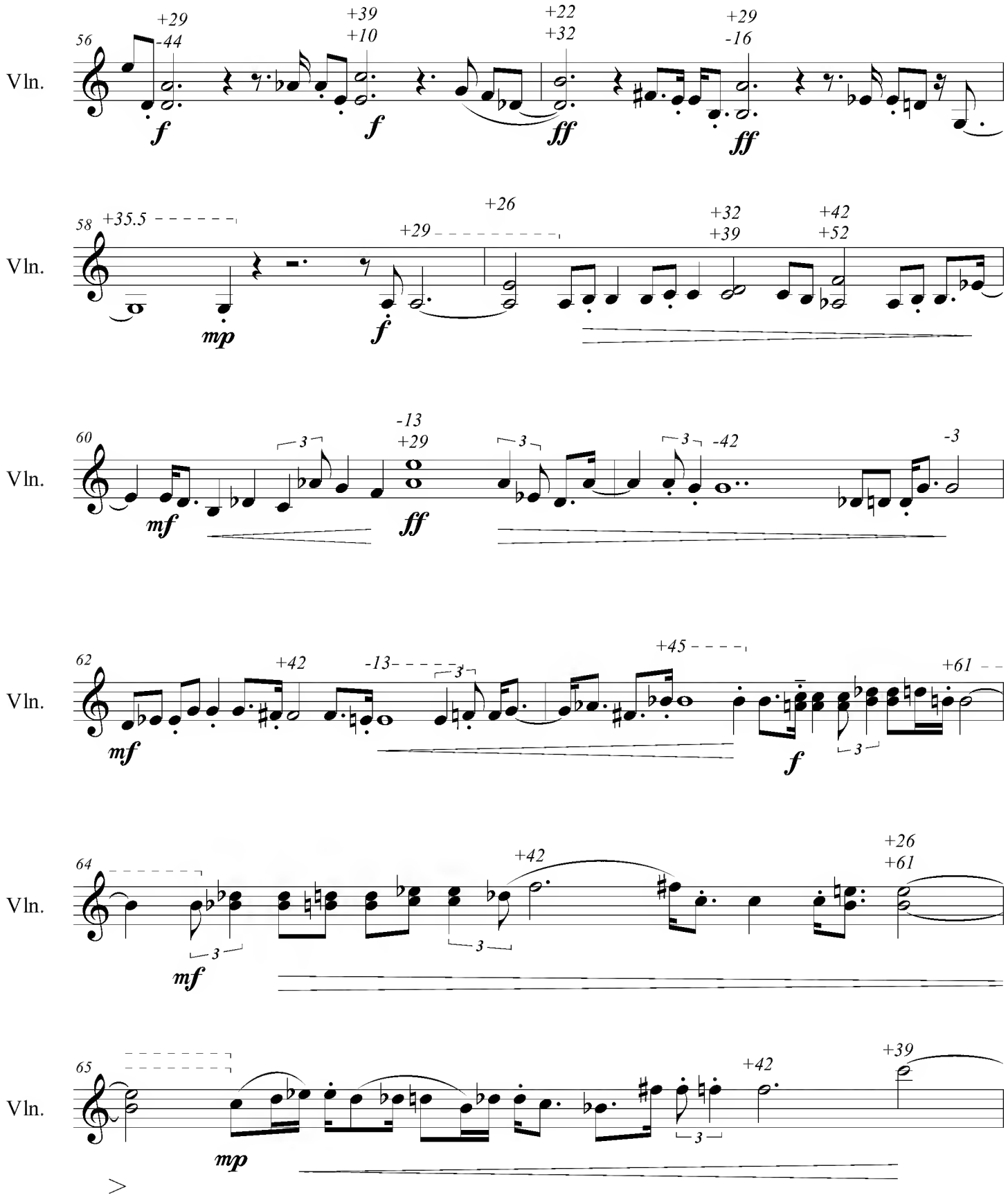
Vln. *ff*

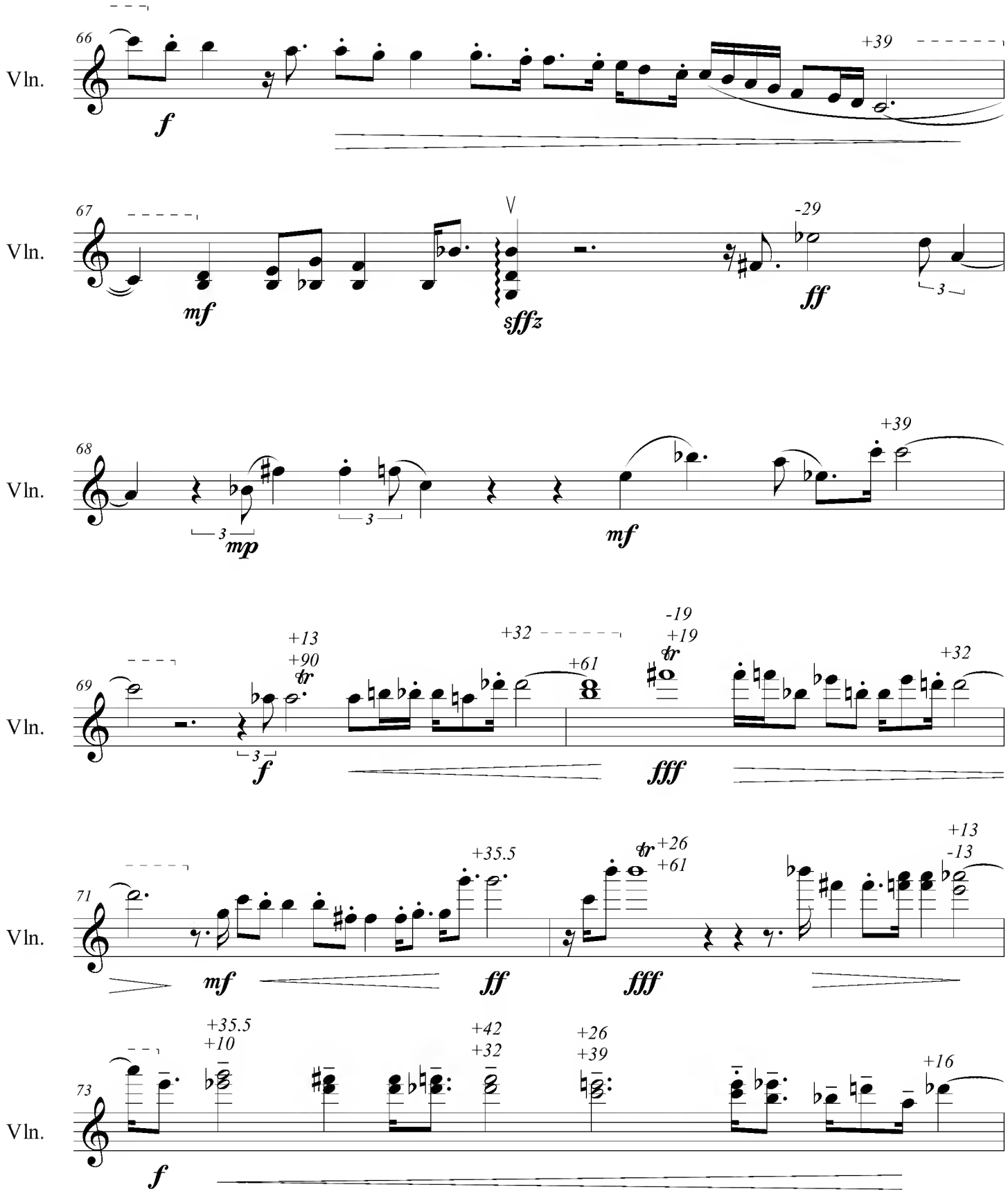
36

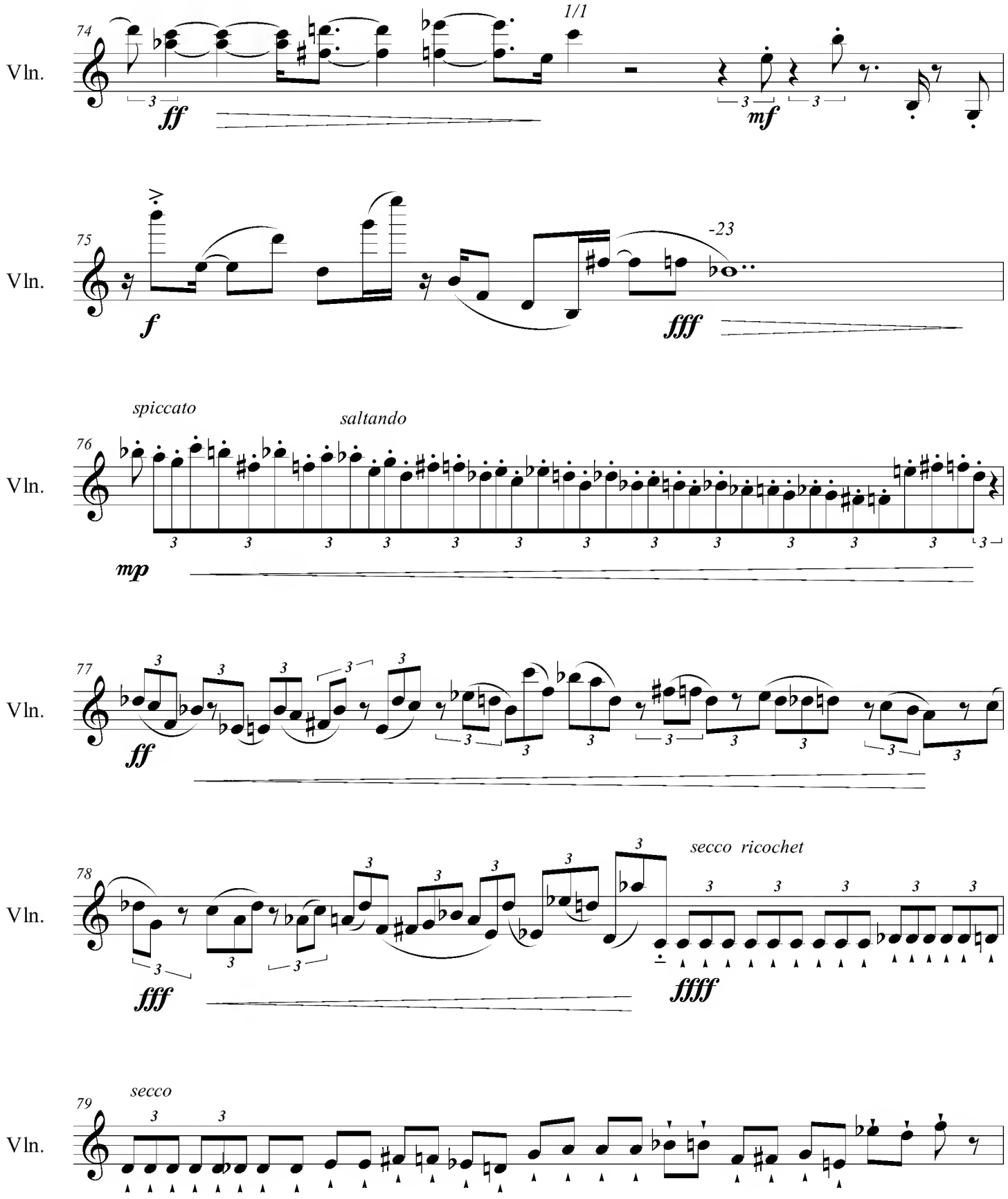
Vln. *mf*

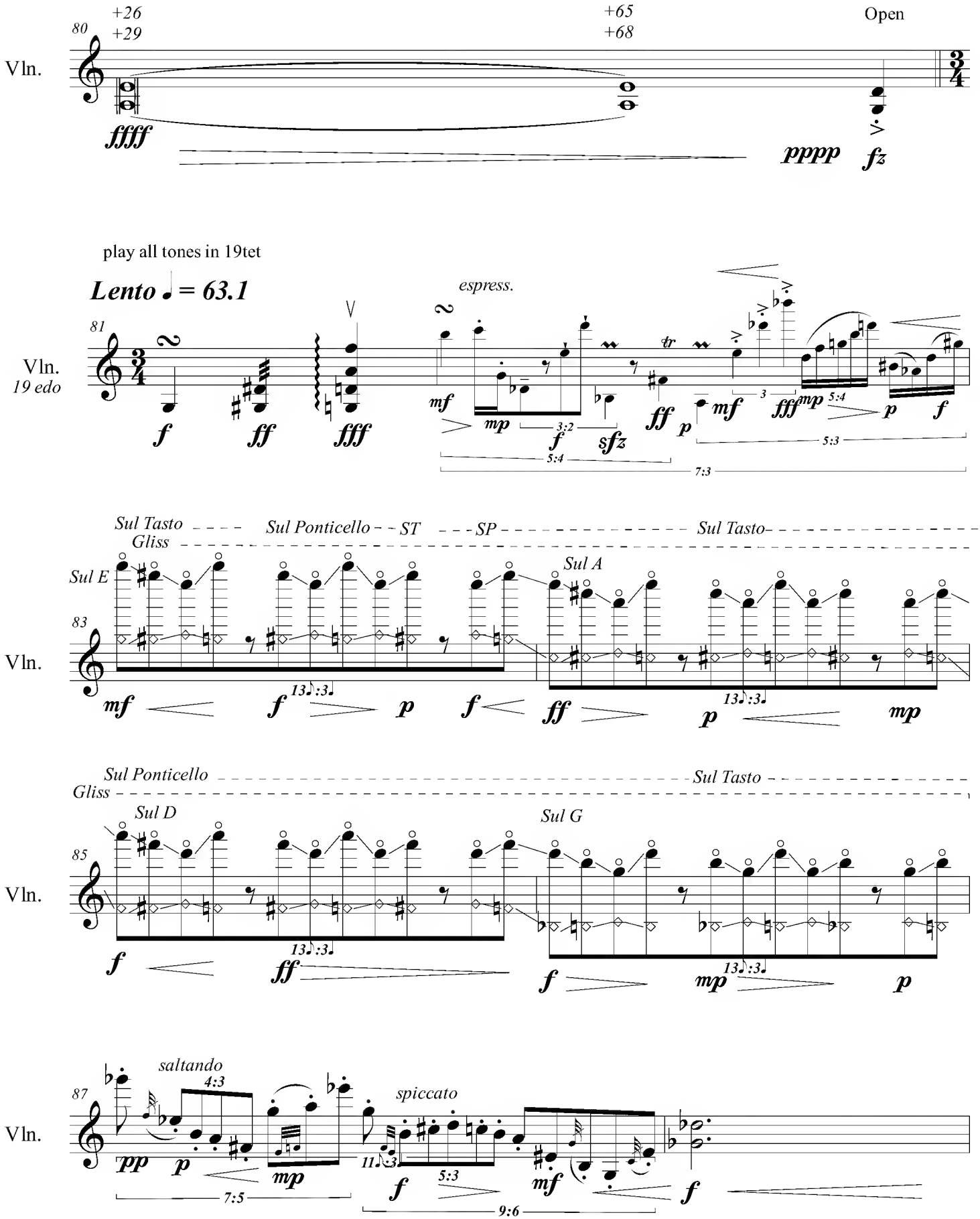

saltando
37
Vln.
mf
f
38
Vln.
ff
39
Vln.
mf
f
NO vibrato
tuning important with long notes
-13
+39
40
Vln.
ffff
ff
+22.5
41
Vln.
mf
3
1/1
+19
ff
+48
3
43
Vln.
mp
3
-45
+45
f
+39
-19
mf
+52
3

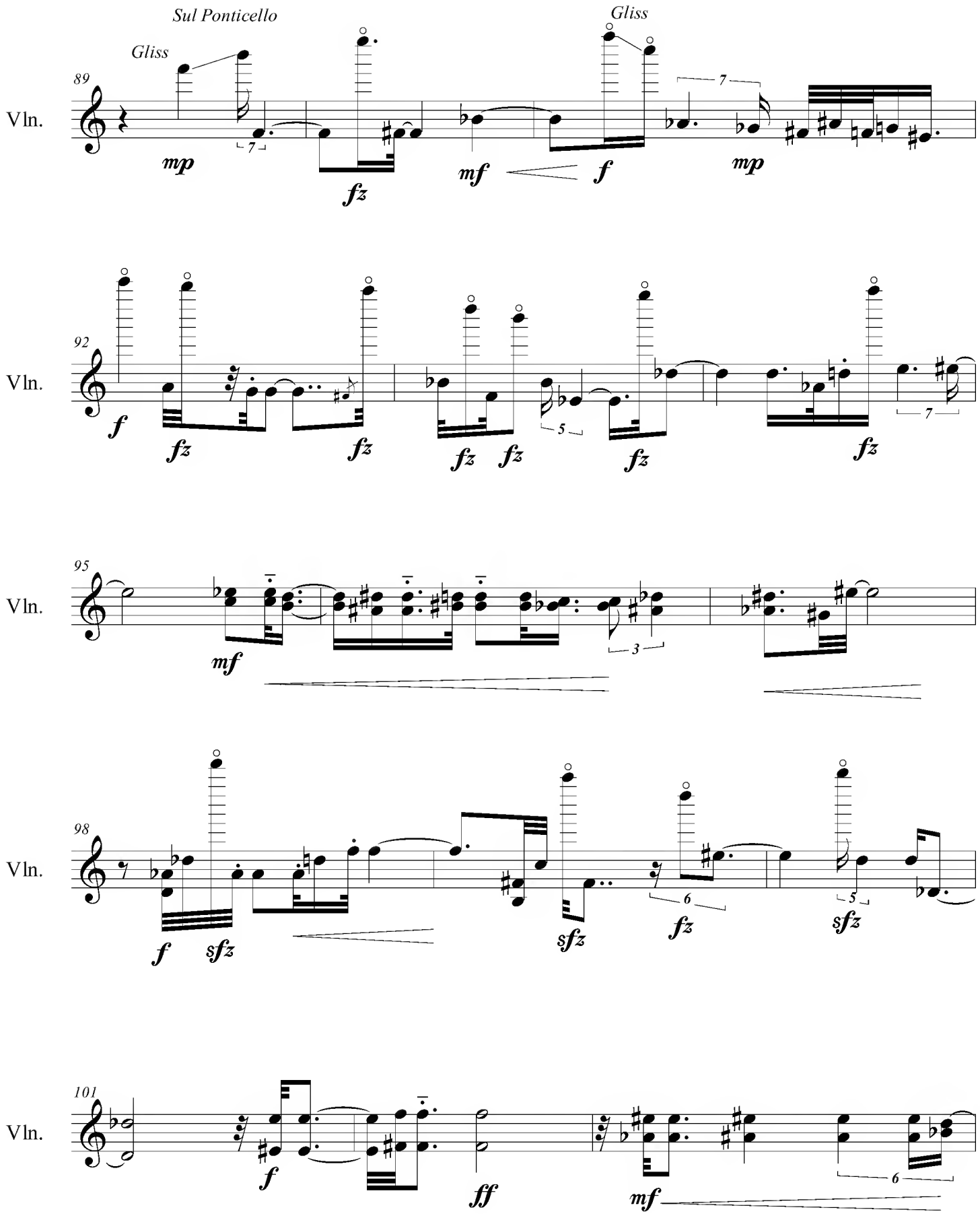

45
Vln.
mf
-42
ff
mp
+35.5
+19
-3
+26
47
Vln.
mf
-29
mp
49
Vln.
+39
-3
+10
ff
+39
+32
ff
51
Vln.
mf
+39
+10
+42
+39
+32
f
53
Vln.
mp
54
Vln.
mf
+32
-7
+29
+35.5
f

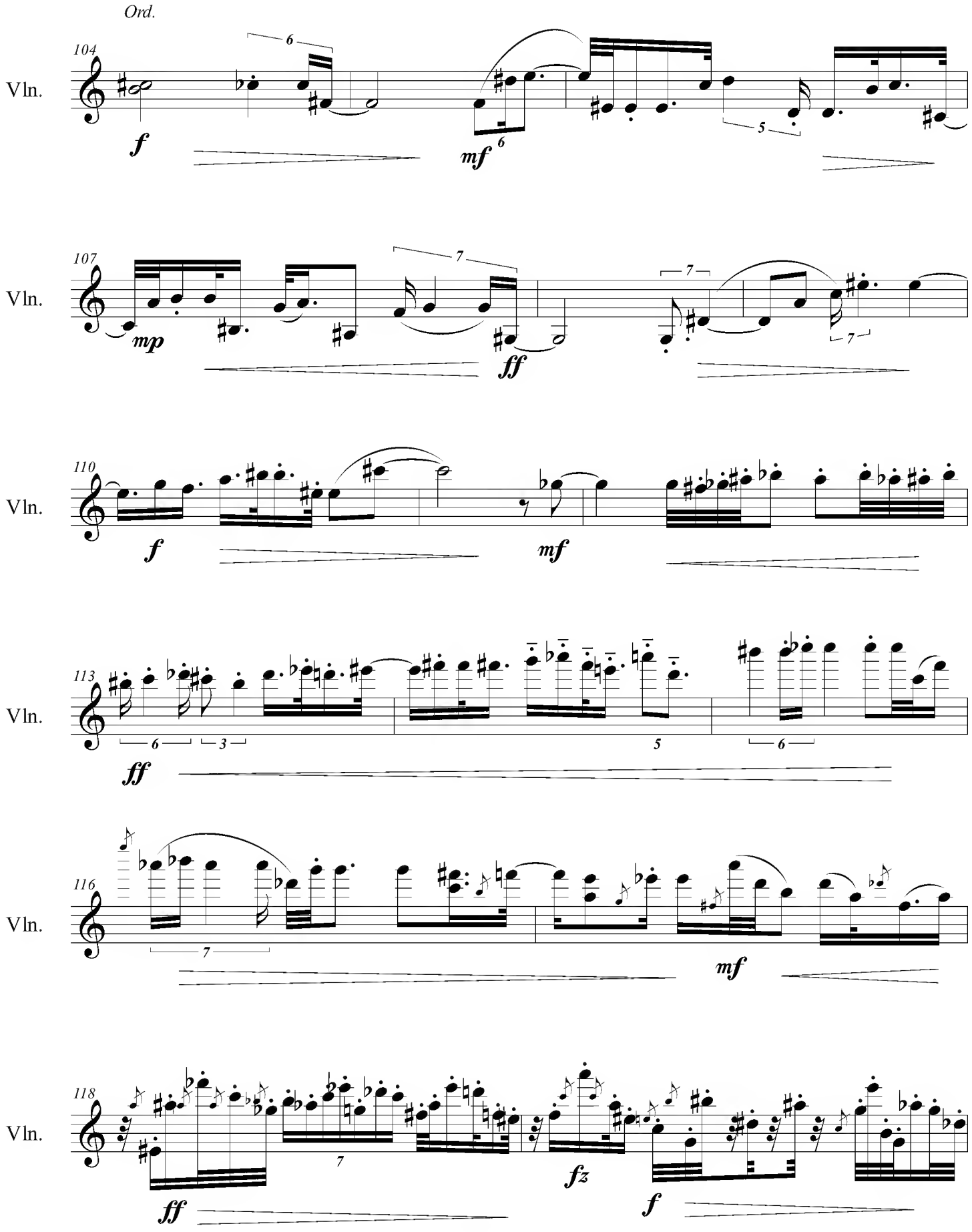

56
Vln.
+29
-44
+39
+10
+22
+32
+29
-16
f
f
ff
ff
58
Vln.
+35.5
+26
+29
+32
+39
+42
+52
mp
f
60
Vln.
-13
+29
-42
-3
mf
ff
62
Vln.
+42
-13
+45
+61
mf
f
64
Vln.
+42
+26
+61
mf
65
Vln.
+42
+39
mp

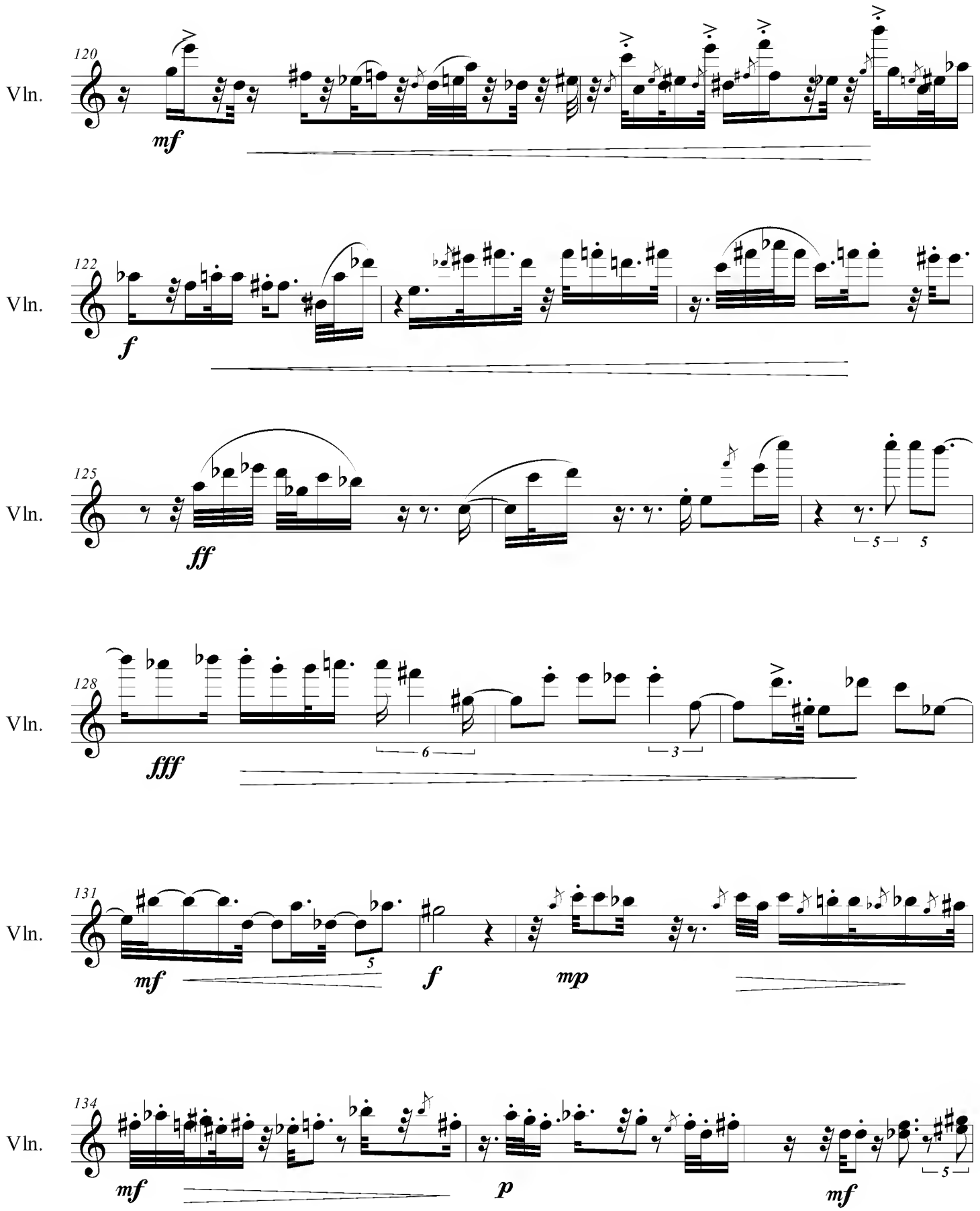

66
Vln.
f
+39
67
Vln.
mf
sffz
-29
ff
3
68
Vln.
3
mp
3
mf
+39
69
Vln.
+13
+90
tr
3
f
+32
+61
-19
+19
tr
fff
+32
71
Vln.
mf
+35.5
ff
tr
+26
+61
fff
+13
-13
73
Vln.
f
+35.5
+10
+42
+32
+26
+39
+16

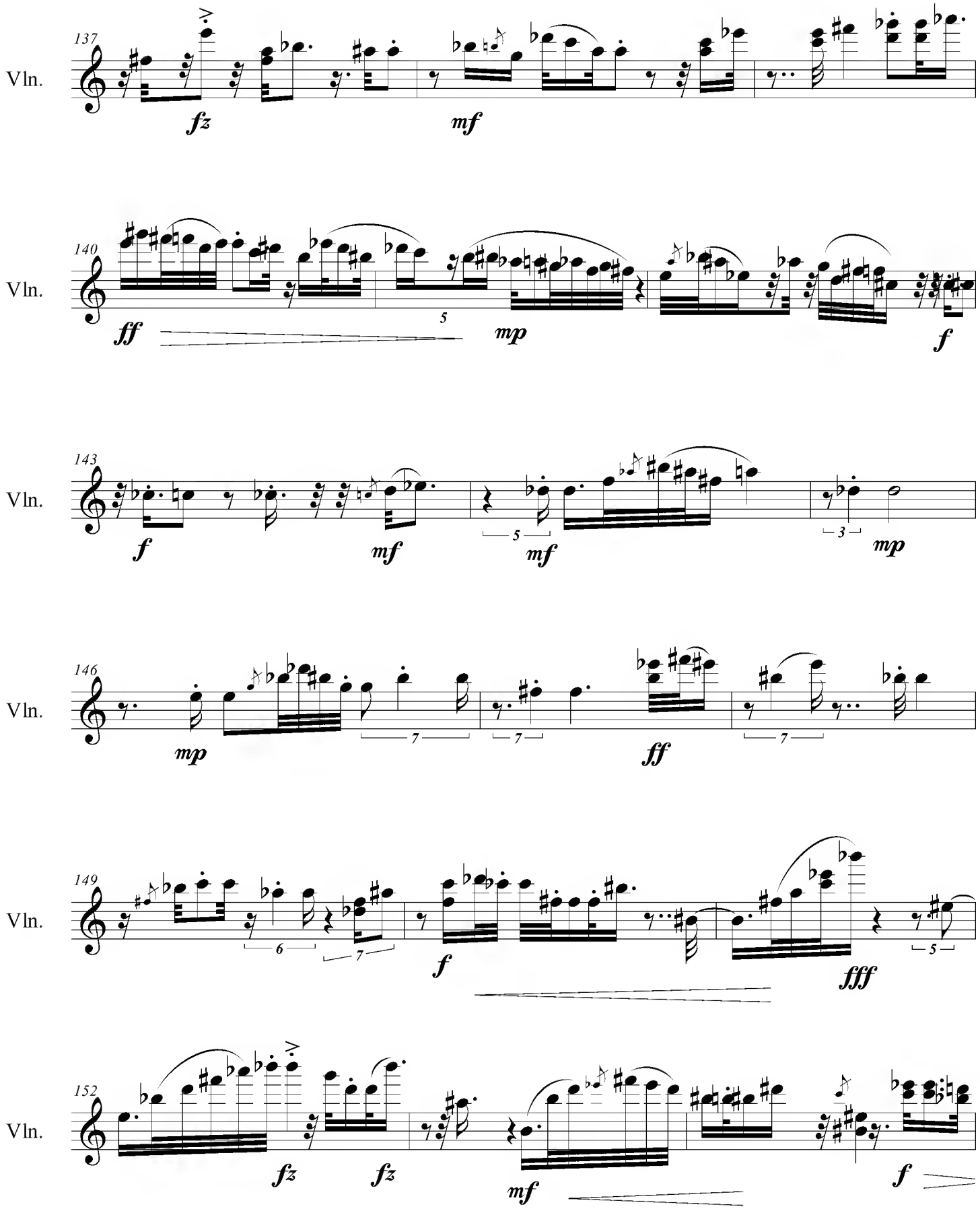

74
Vln.
1/1
ff
mf
75
Vln.
-23
f
fff
spiccato
saltando
76
Vln.
mp
77
Vln.
ff
78
Vln.
fff
secco ricochet
ffff
79
Vln.
secco

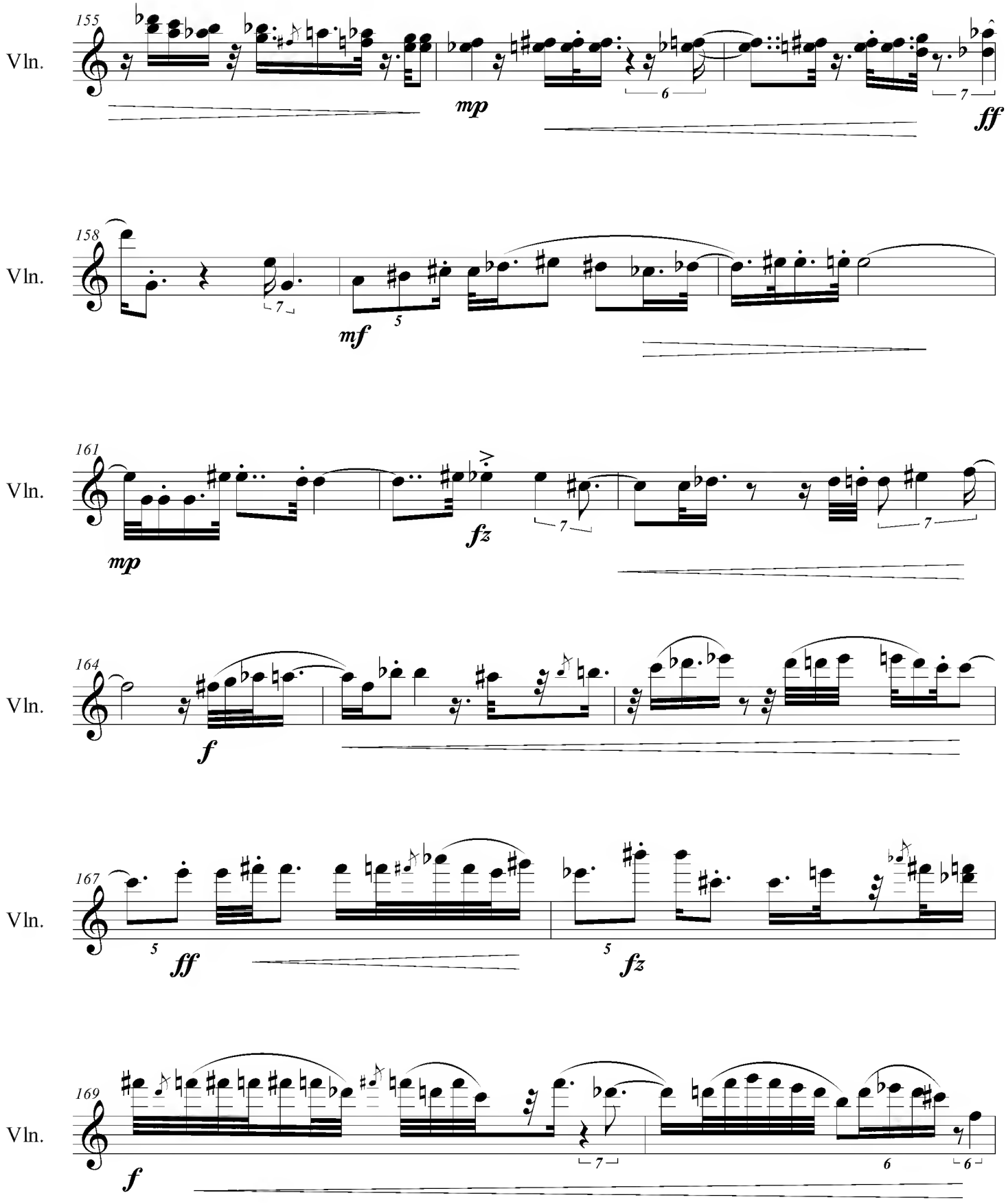

80
+26
+29
+65
+68
Open
Vln.
ffff
pppp
fz
play all tones in 19tet
Lento ♩ = 63.1
81
Vln.
19 edo
espress.
f
ff
fff
mf
mp
sfz
tr
3:2
5:4
7:3
5:3
Sul Tasto
Gliss
Sul Ponticello
ST
SP
Sul Tasto
Sul E
Sul A
83
Vln.
13:3
Sul Ponticello
Gliss
Sul Tasto
Sul D
Sul G
85
Vln.
13:3
saltando
4:3
87
Vln.
pp
p
mp
7:5
spiccato
11:3
5:3
9:6

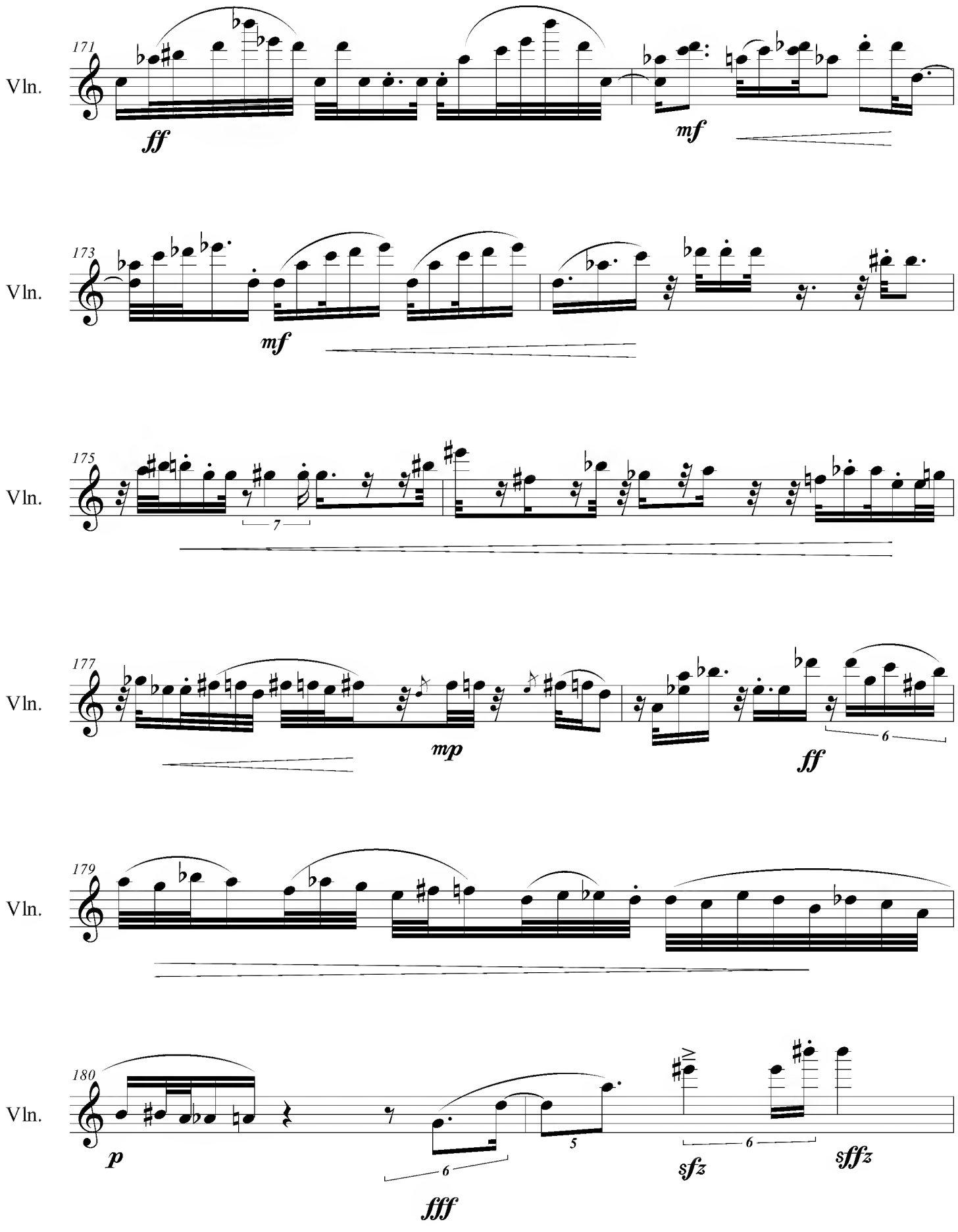

Sul Ponticello
Gliss
Gliss
89
Vln.
mp
fz
mf
f
mp
92
Vln.
f
fz
fz
fz
fz
fz
fz
95
Vln.
mf
98
Vln.
f
sfz
sfz
fz
sfz
101
Vln.
f
ff
mf

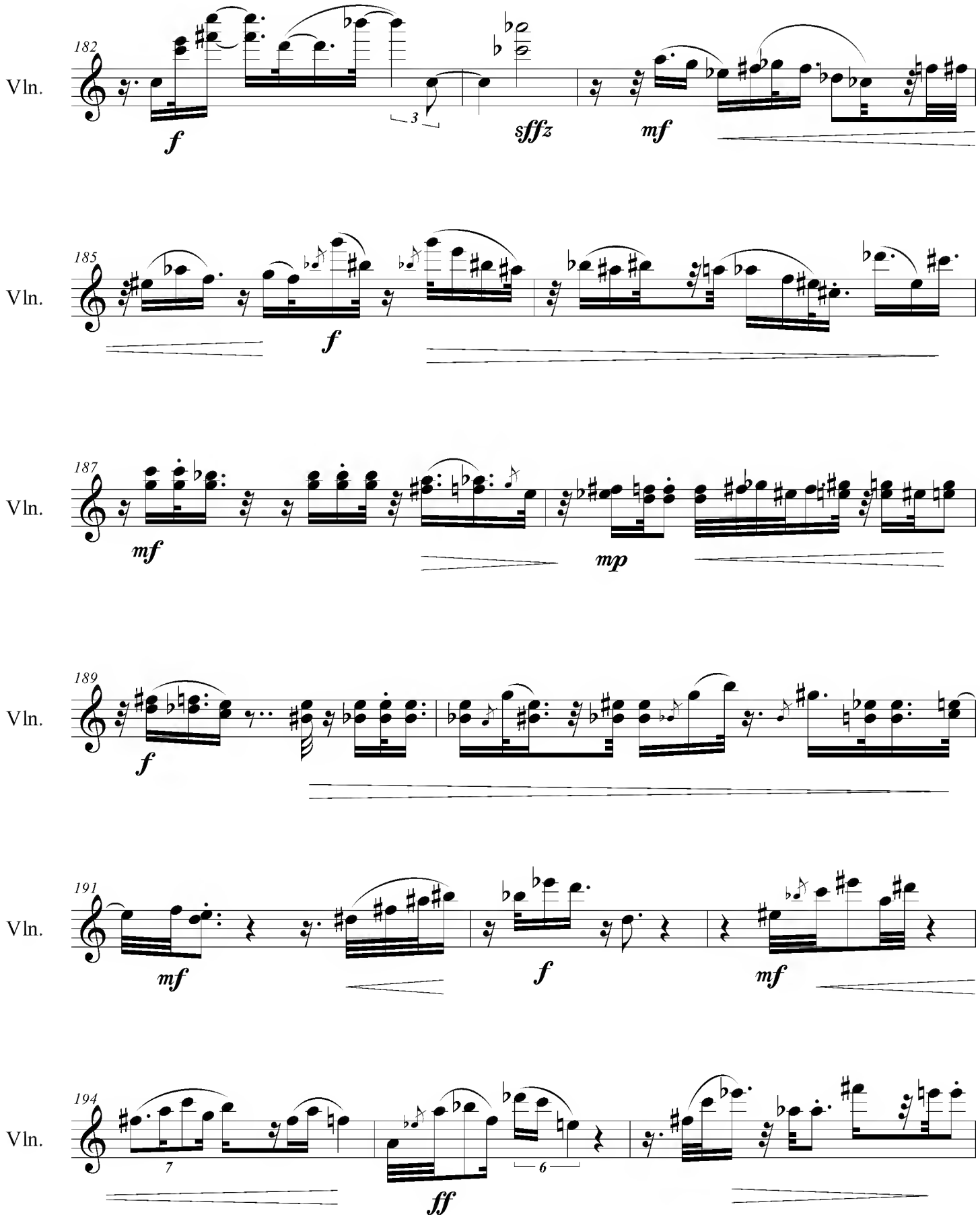

Ord.
104
Vln.
f
mf
107
Vln.
mp
ff
110
Vln.
f
mf
113
Vln.
ff
116
Vln.
mf
118
Vln.
ff
fz
f

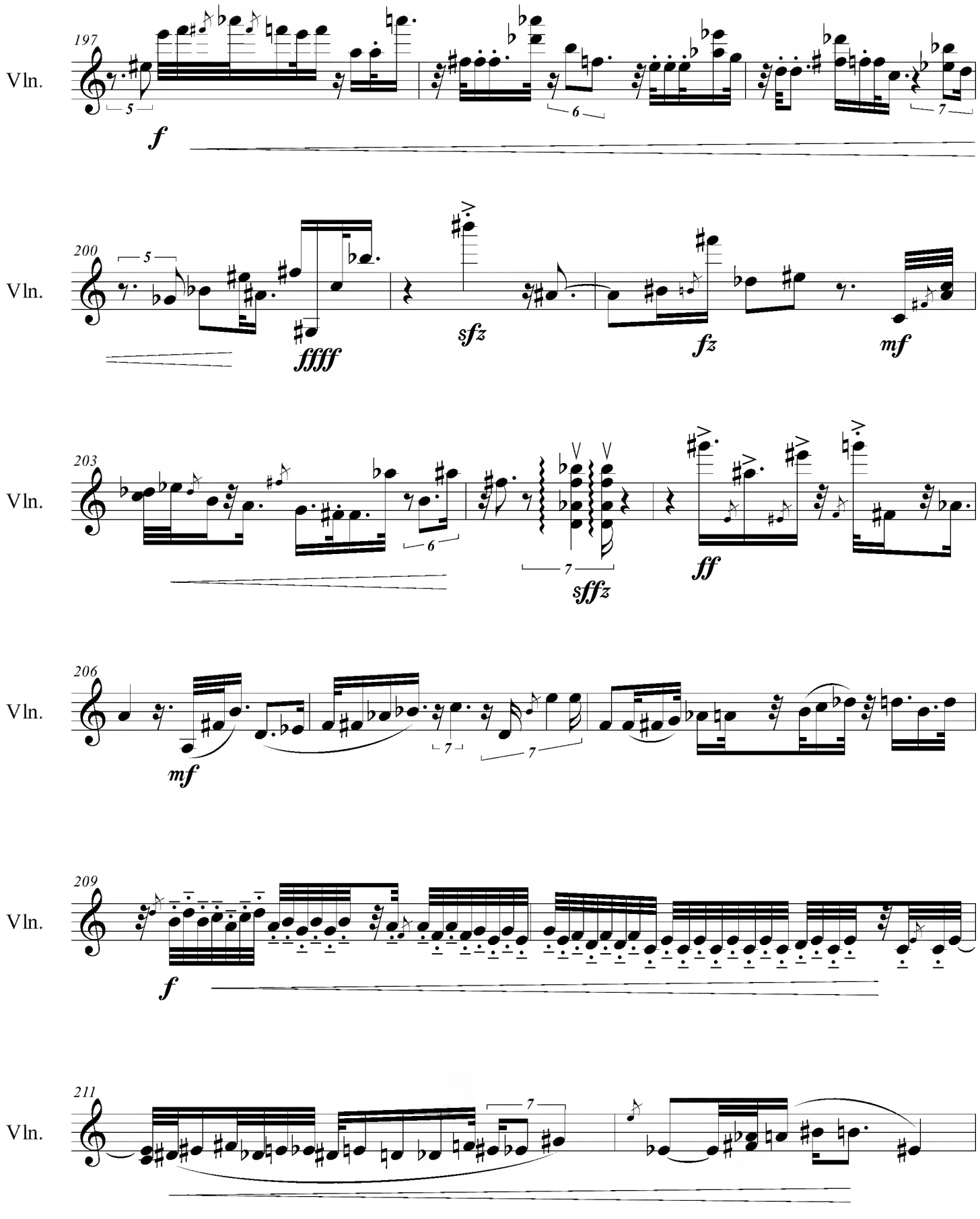

120
Vln.
mf
122
Vln.
f
125
Vln.
ff
5
5
128
Vln.
fff
6
3
131
Vln.
mf
5
f
mp
134
Vln.
mf
p
mf
5

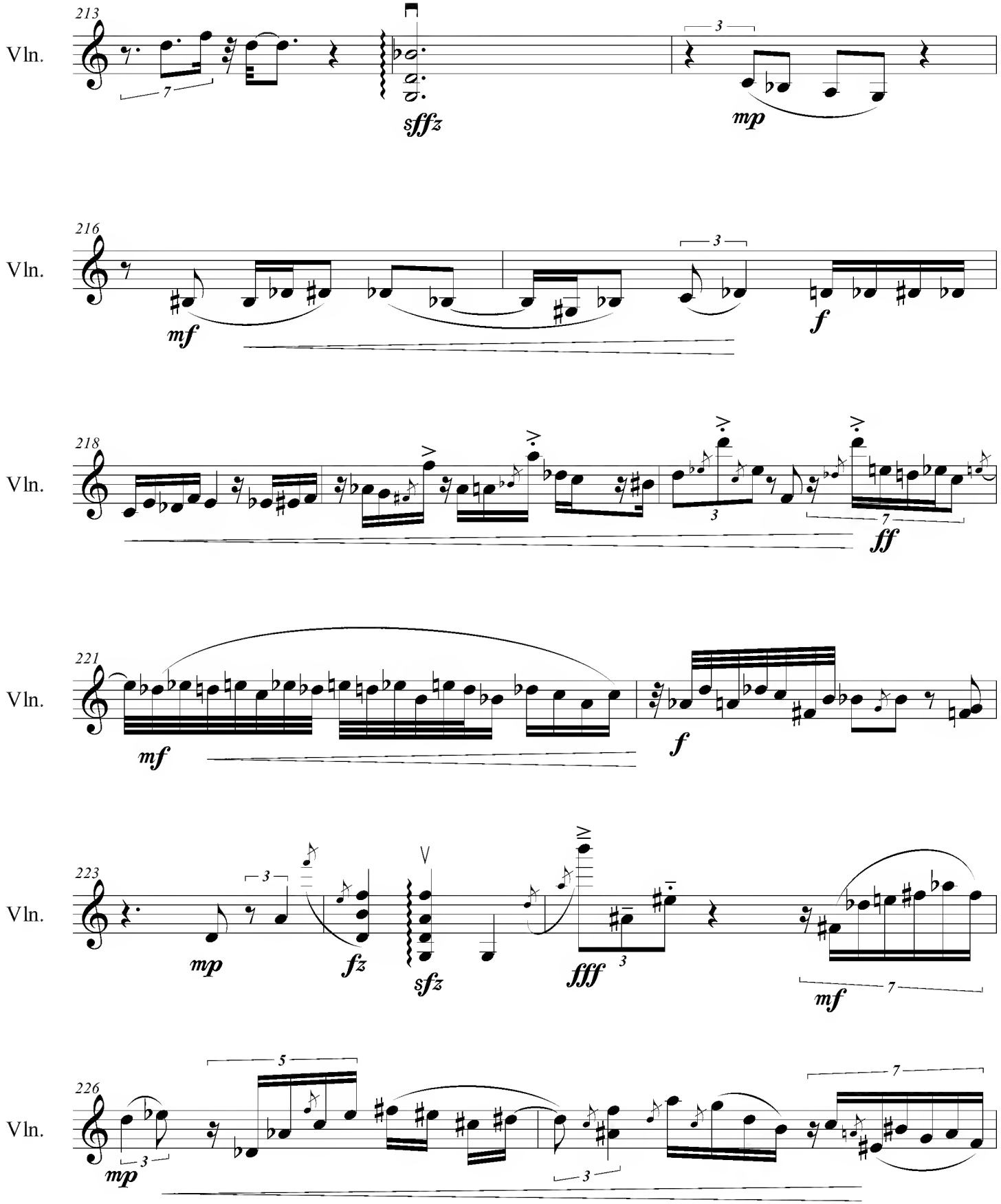

137
Vln.
fz
mf
140
Vln.
ff
5
mp
f
143
Vln.
f
mf
5
mf
3
mp
146
Vln.
mp
7
7
ff
7
149
Vln.
6
7
f
fff
5
152
Vln.
fz
fz
mf
f

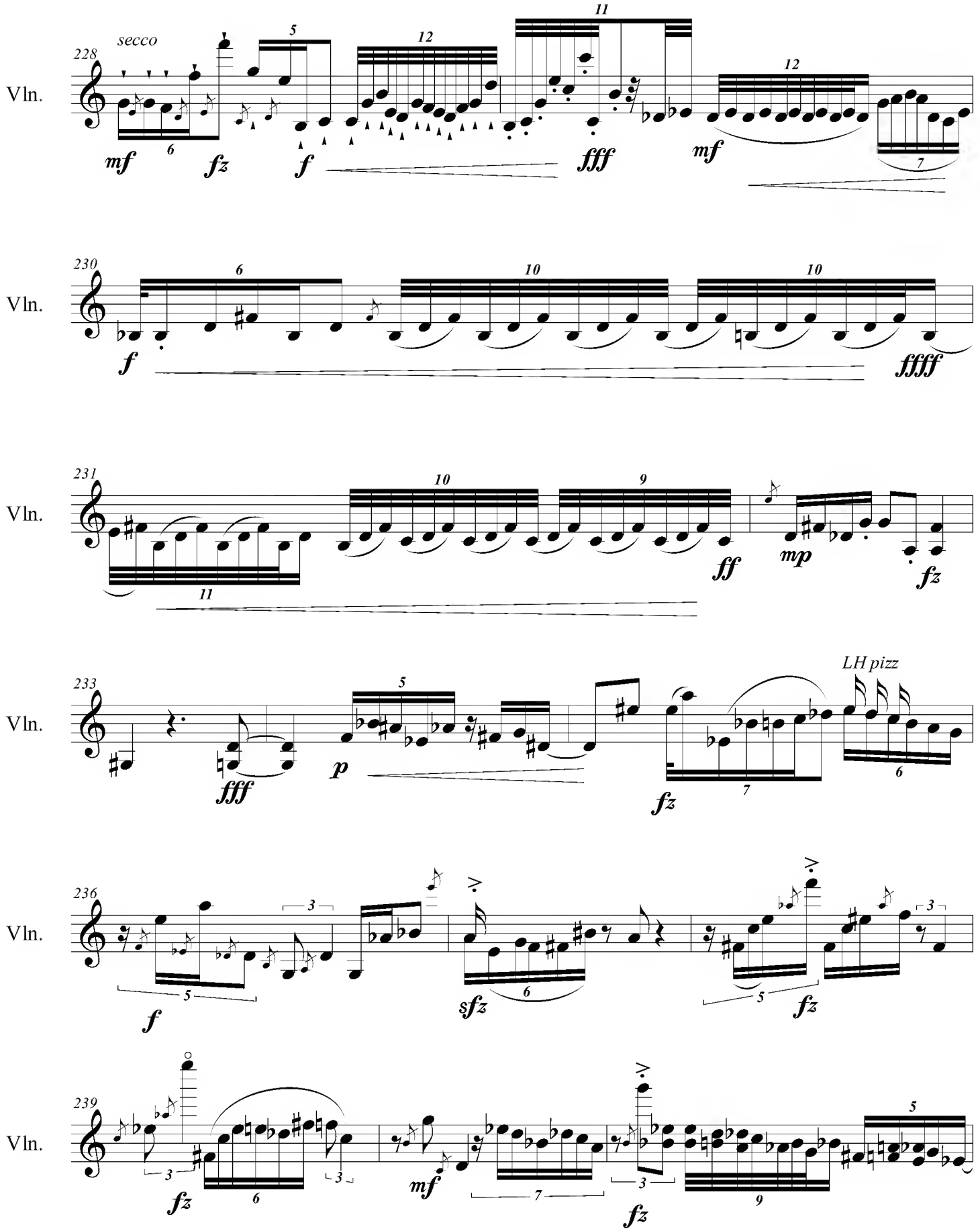

155
Vln.
mp
ff
158
Vln.
mf
161
Vln.
mp
fz
164
Vln.
f
167
Vln.
ff
fz
169
Vln.
f

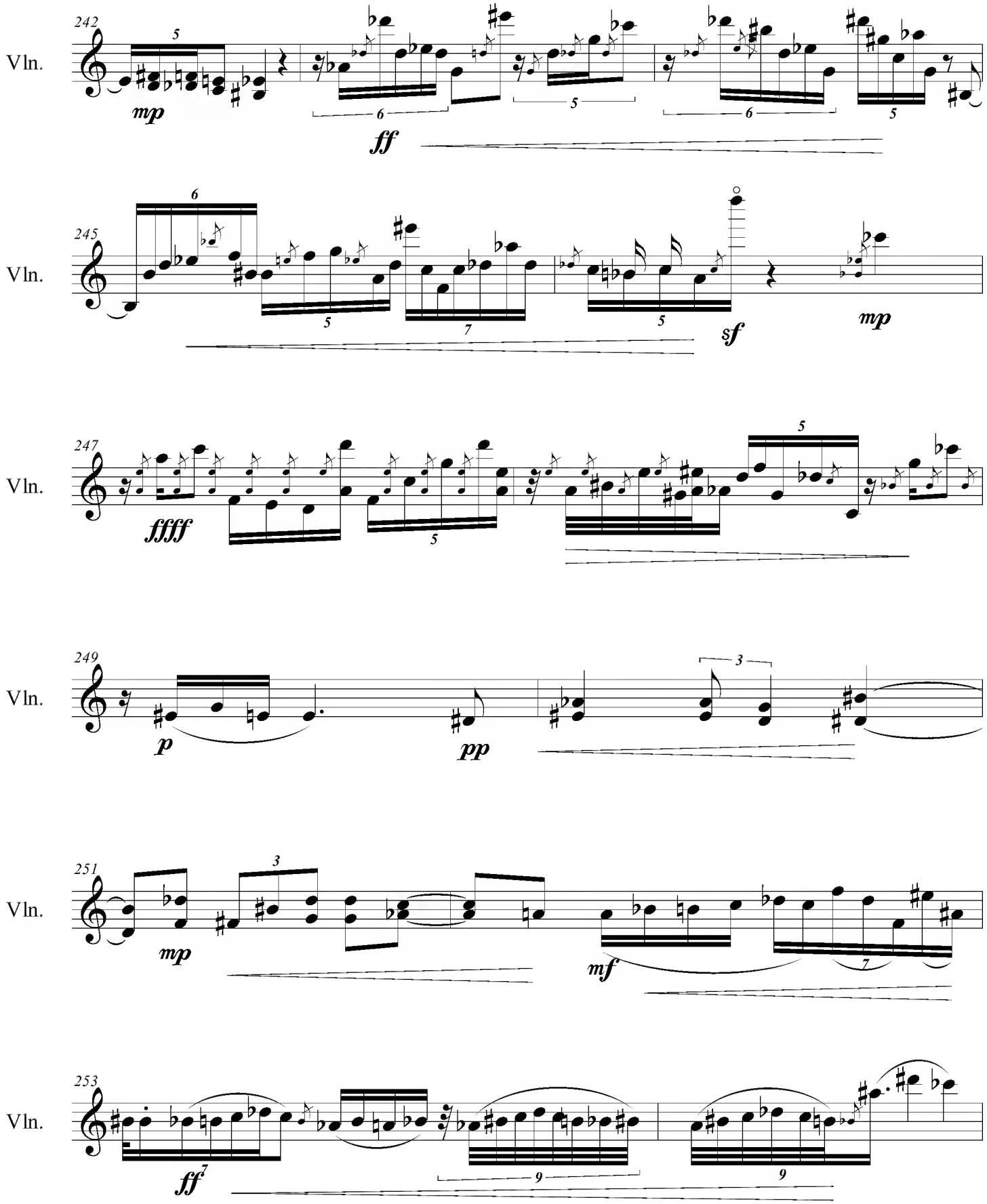

171
Vln.
ff
mf
173
Vln.
mf
175
Vln.
7
177
Vln.
mp
ff
6
179
Vln.
180
Vln.
p
6
fff
5
6
sfz
sfffz

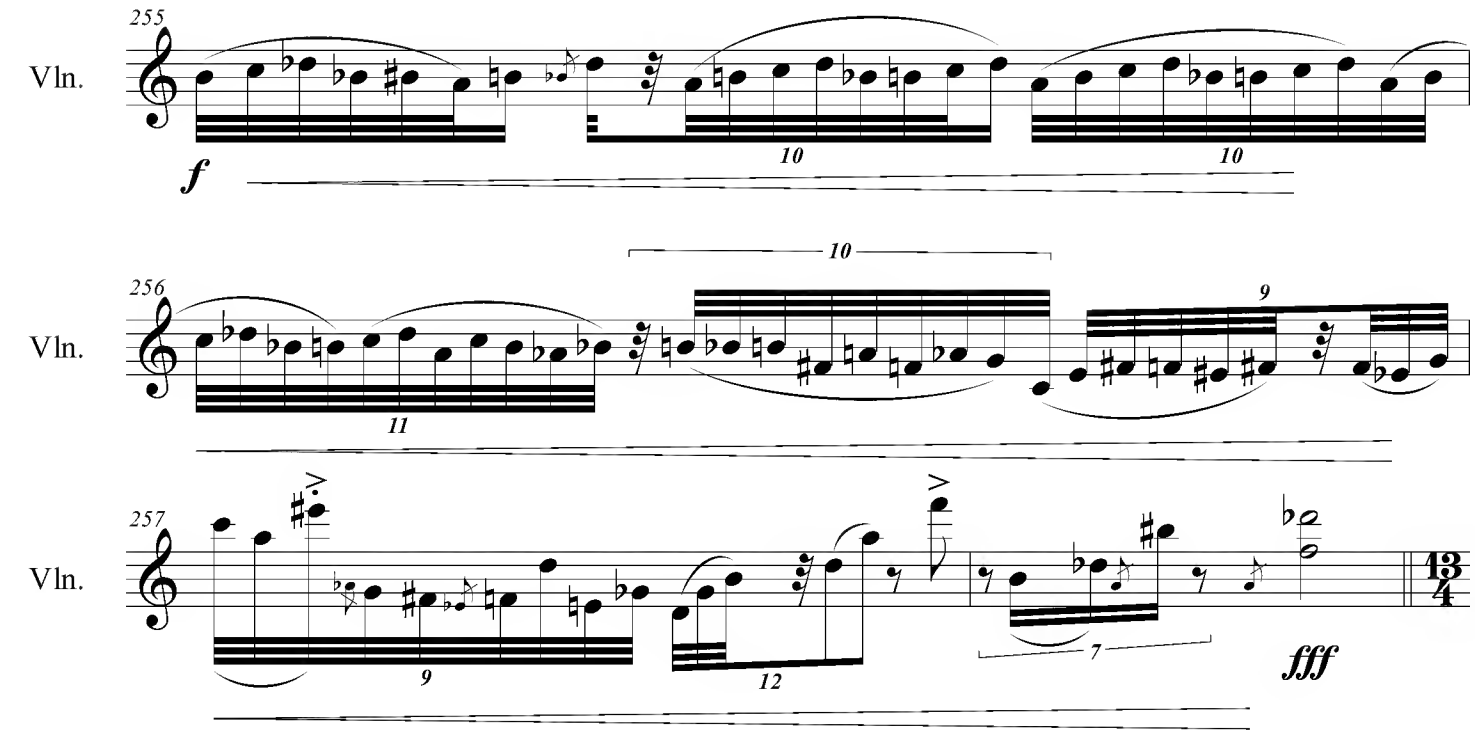

182
Vln.
f
3
sffz
mf
185
Vln.
f
187
Vln.
mf
mp
189
Vln.
f
191
Vln.
mf
f
mf
194
Vln.
7
6
ff


197
Vln.
5
6
7
f
200
Vln.
5
ffff
sfz
fz
mf
203
Vln.
6
7
sffz
ff
206
Vln.
mf
7
7
209
Vln.
f
211
Vln.
7


213
Vln.
sffz
mp
216
Vln.
mf
f
218
Vln.
ff
221
Vln.
mf
f
223
Vln.
mp
fz
sfz
fff
mf
226
Vln.
mp


Vln.
228
secco
mf
fz
f
fff
mf
230
f
ffff
231
ff
mp
fz
233
fff
p
fz
LH pizz
236
f
sfz
fz
239
fz
mf
fz

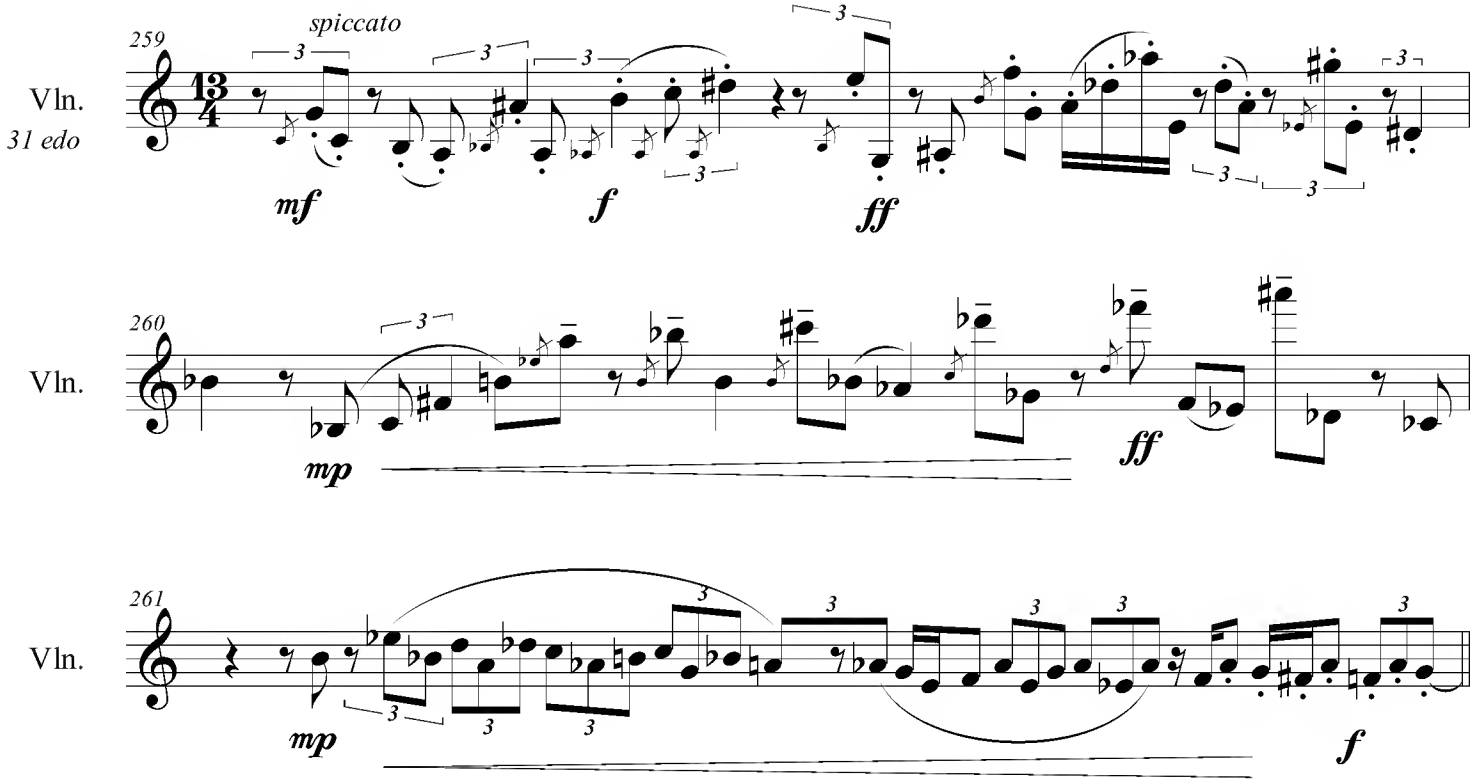

242
Vln.
mp
ff
245
Vln.
sf
mp
247
Vln.
ffff
249
Vln.
p
pp
251
Vln.
mp
mf
253
Vln.
ff

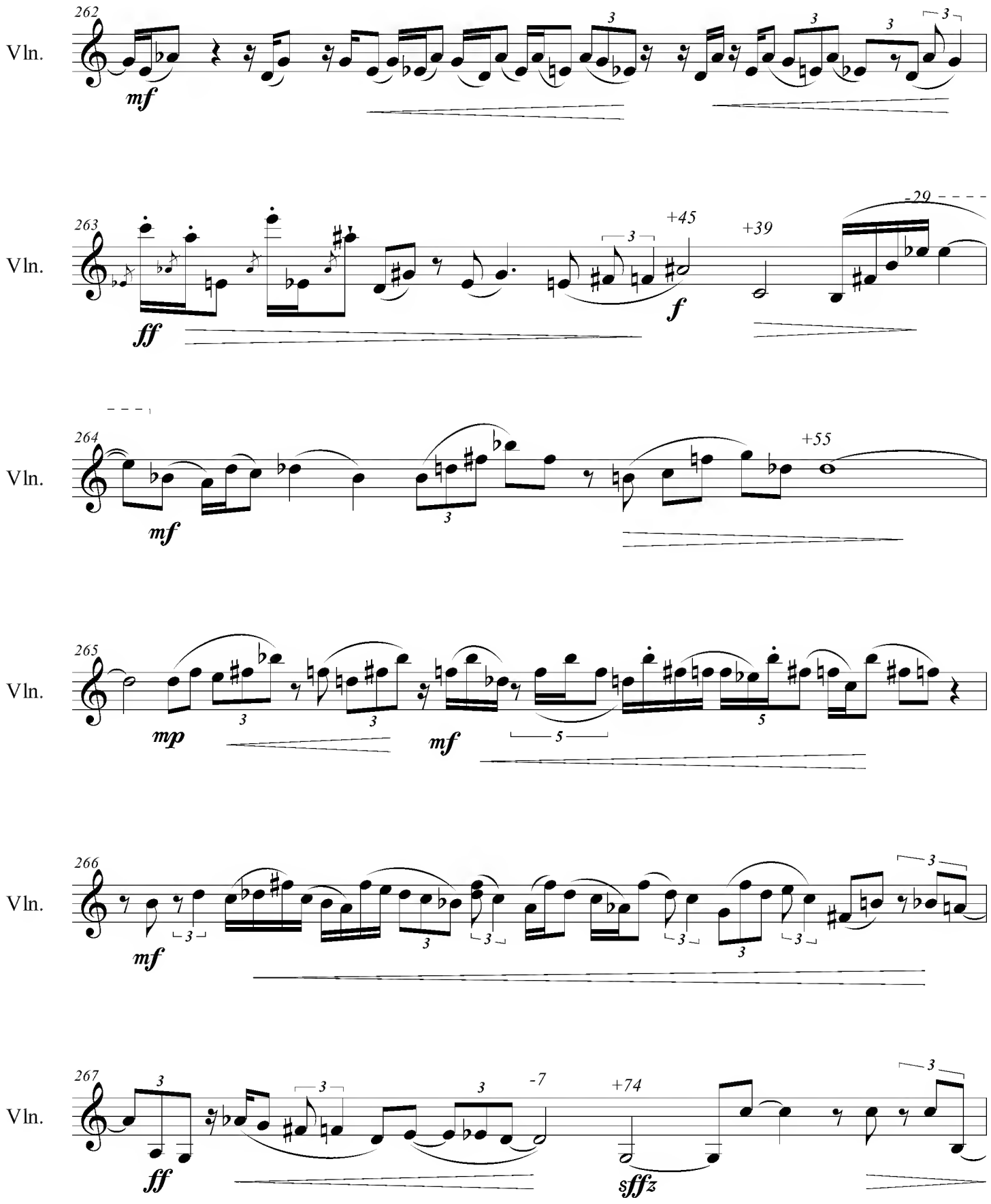


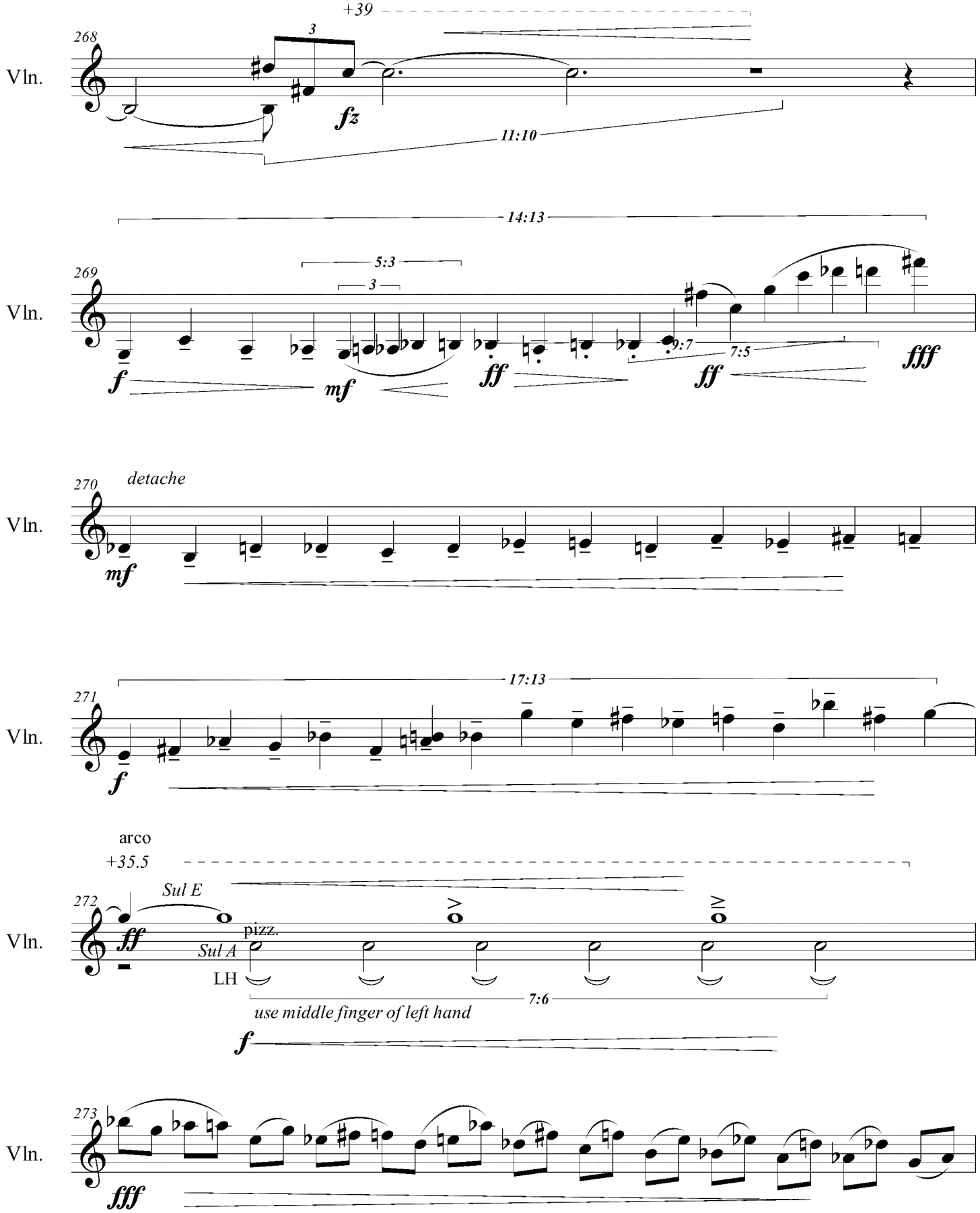
play only half and whole notes in 31tet

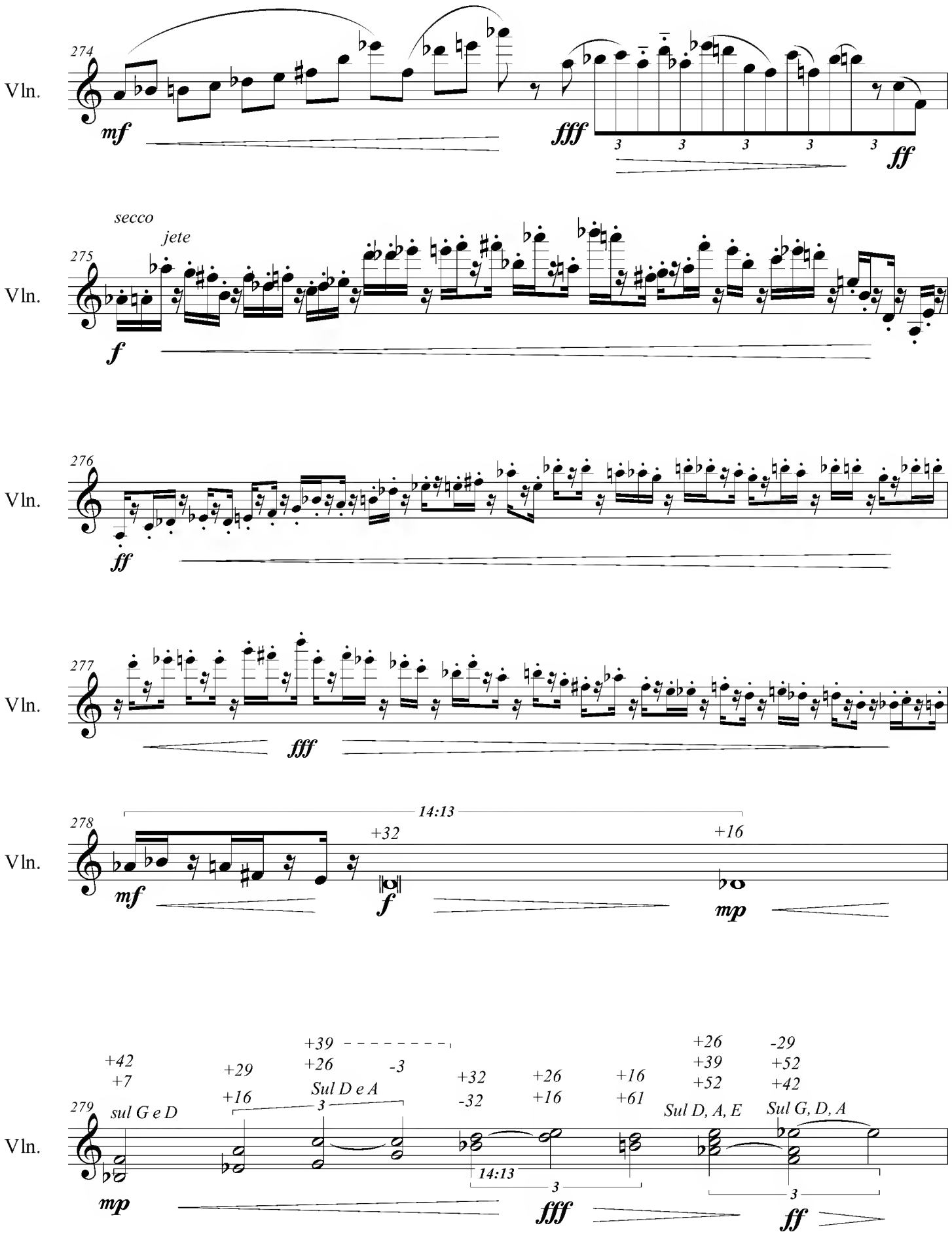
Primo Tempo

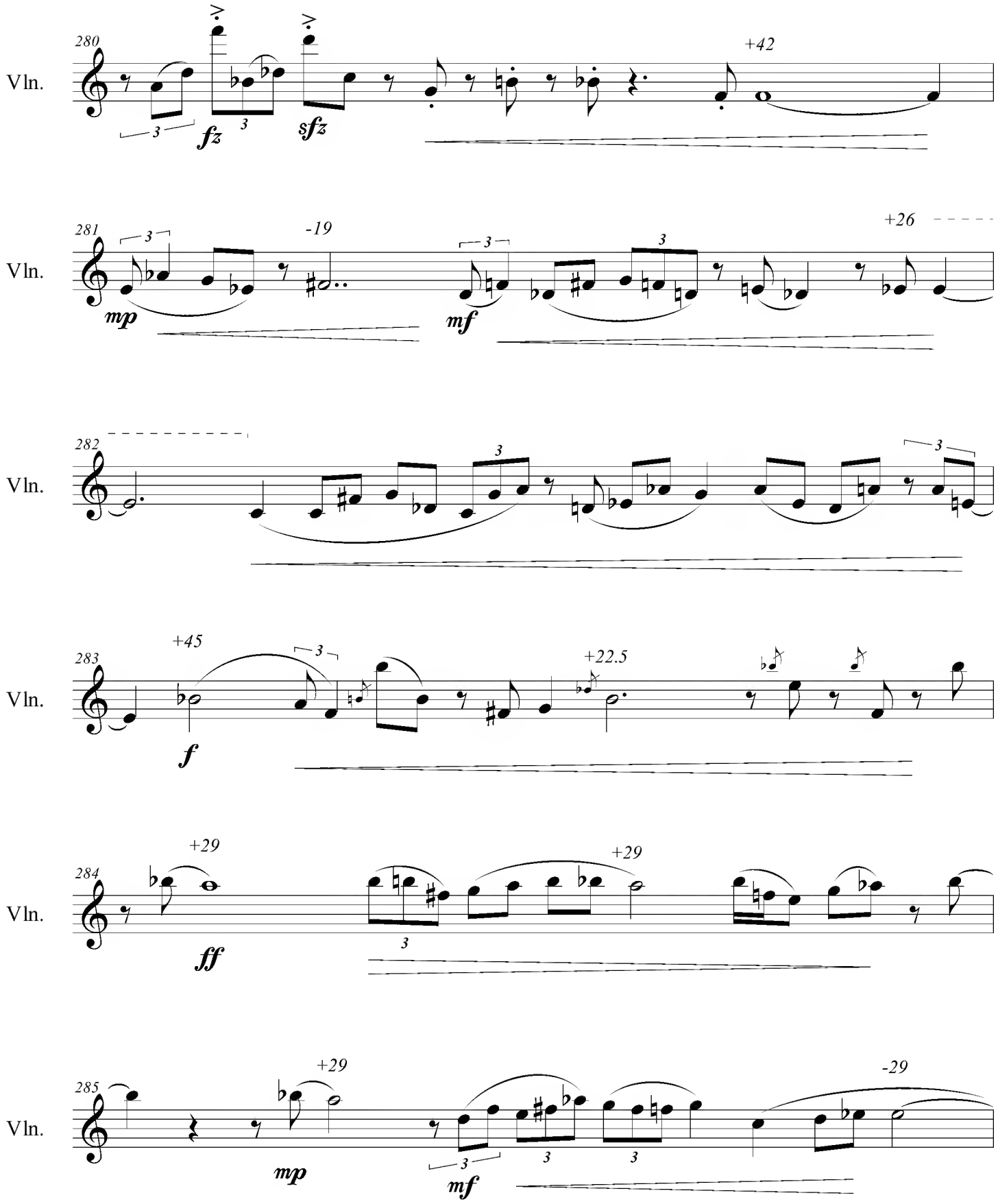
Presto ♩ = 188.5 *agitato*

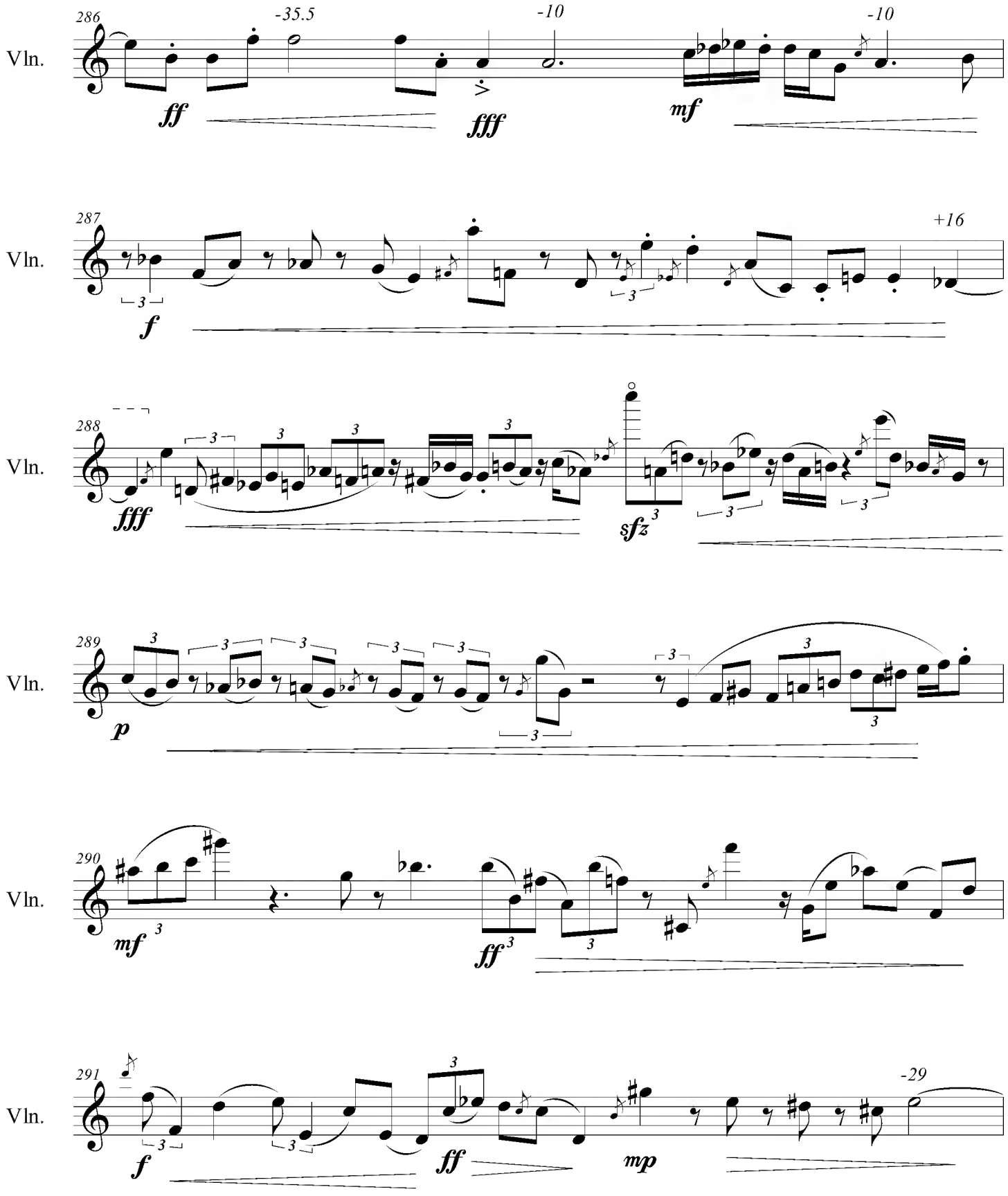


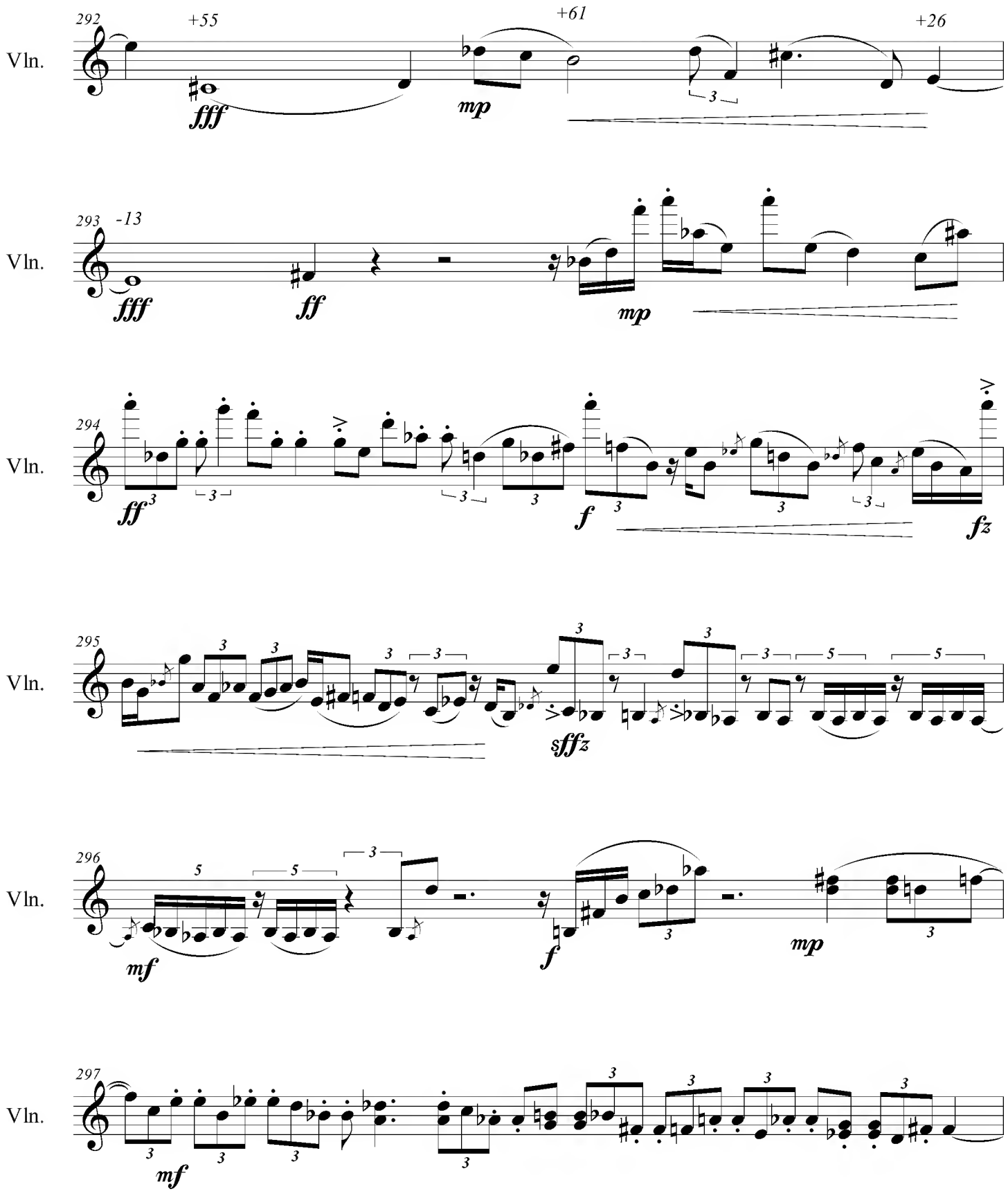

Vln.
262
mf
Vln.
263
ff
+45
f
+39
-29
Vln.
264
mf
+55
Vln.
265
mp
mf
Vln.
266
mf
Vln.
267
ff
-7
+74
sffz

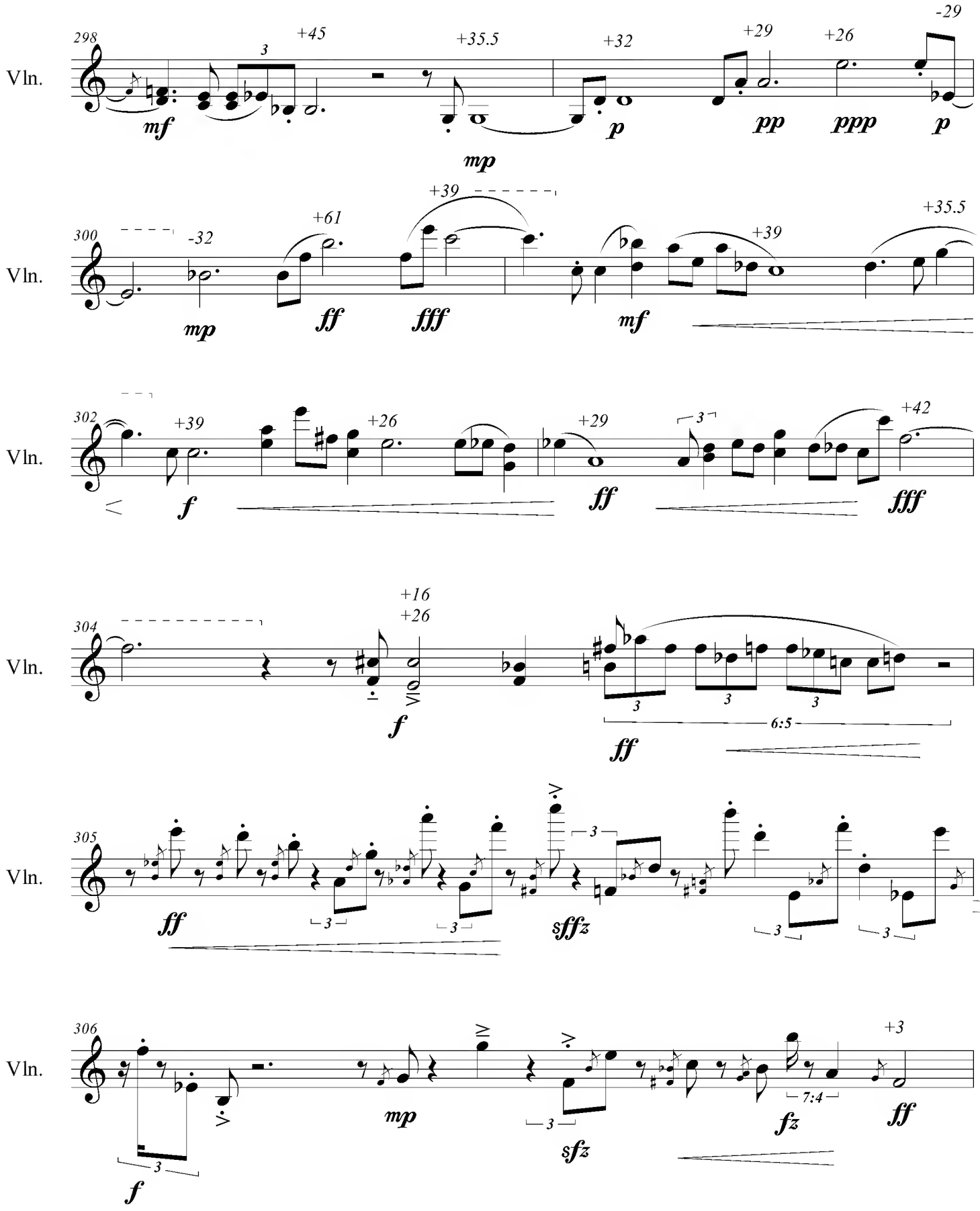

+39
268
Vln.
3
fz
11:10
14:13
269
Vln.
5:3
3
f
mf
ff
9:7
7:5
ff
fff
270
detache
Vln.
mf
17:13
271
Vln.
f
arco
+35.5
272
Vln.
Sul E
ff
pizz.
Sul A
LH
7:6
use middle finger of left hand
f
273
Vln.
fff

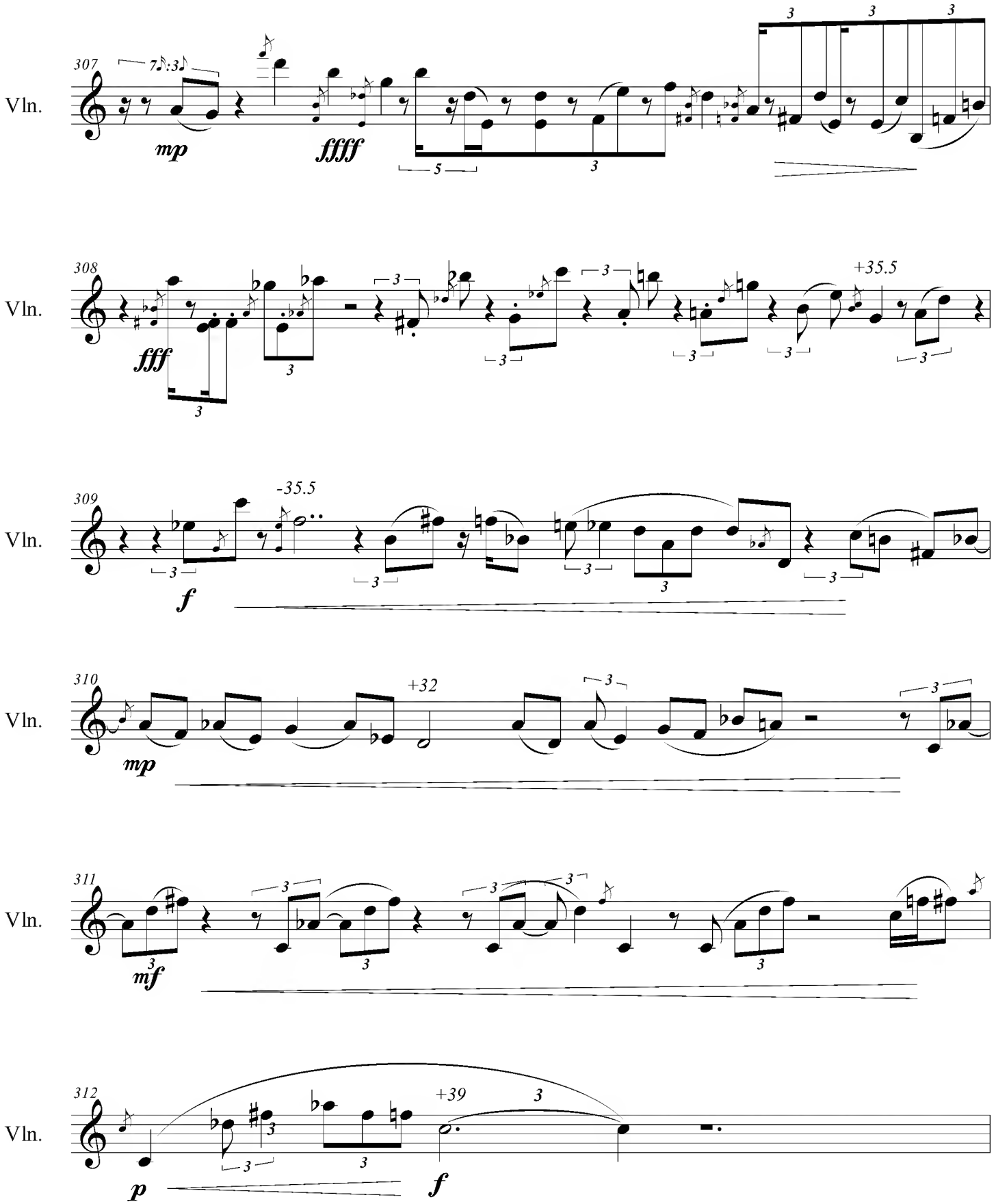

Vln.
274
mf
fff
3 3 3 3 3
ff
secco
jete
275
f
276
ff
277
fff
14:13
278
+32
+16
mf
f
mp
+42
+7
sul G e D
+29
+16
+39
+26
-3
Sul D e A
3
+32
-32
+26
+16
+16
+61
+26
+39
+52
Sul D, A, E
-29
+52
+42
Sul G, D, A
279
mp
14:13
3
fff
3
ff

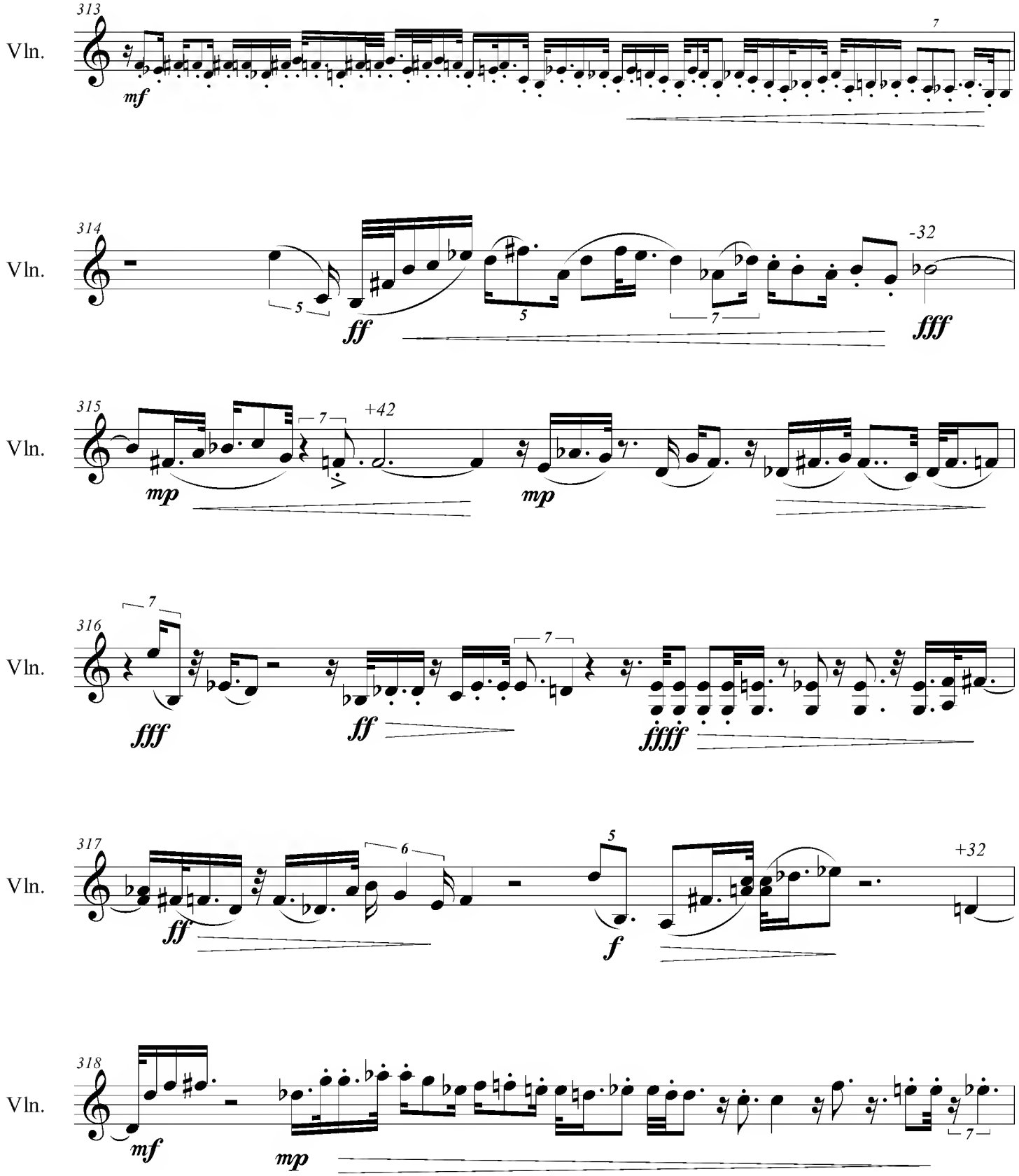

Vln.
280
+42
fz
sfz
Vln.
281
-19
+26
mp
mf
Vln.
282
Vln.
283
+45
+22.5
f
Vln.
284
+29
+29
ff
Vln.
285
+29
-29
mp
mf

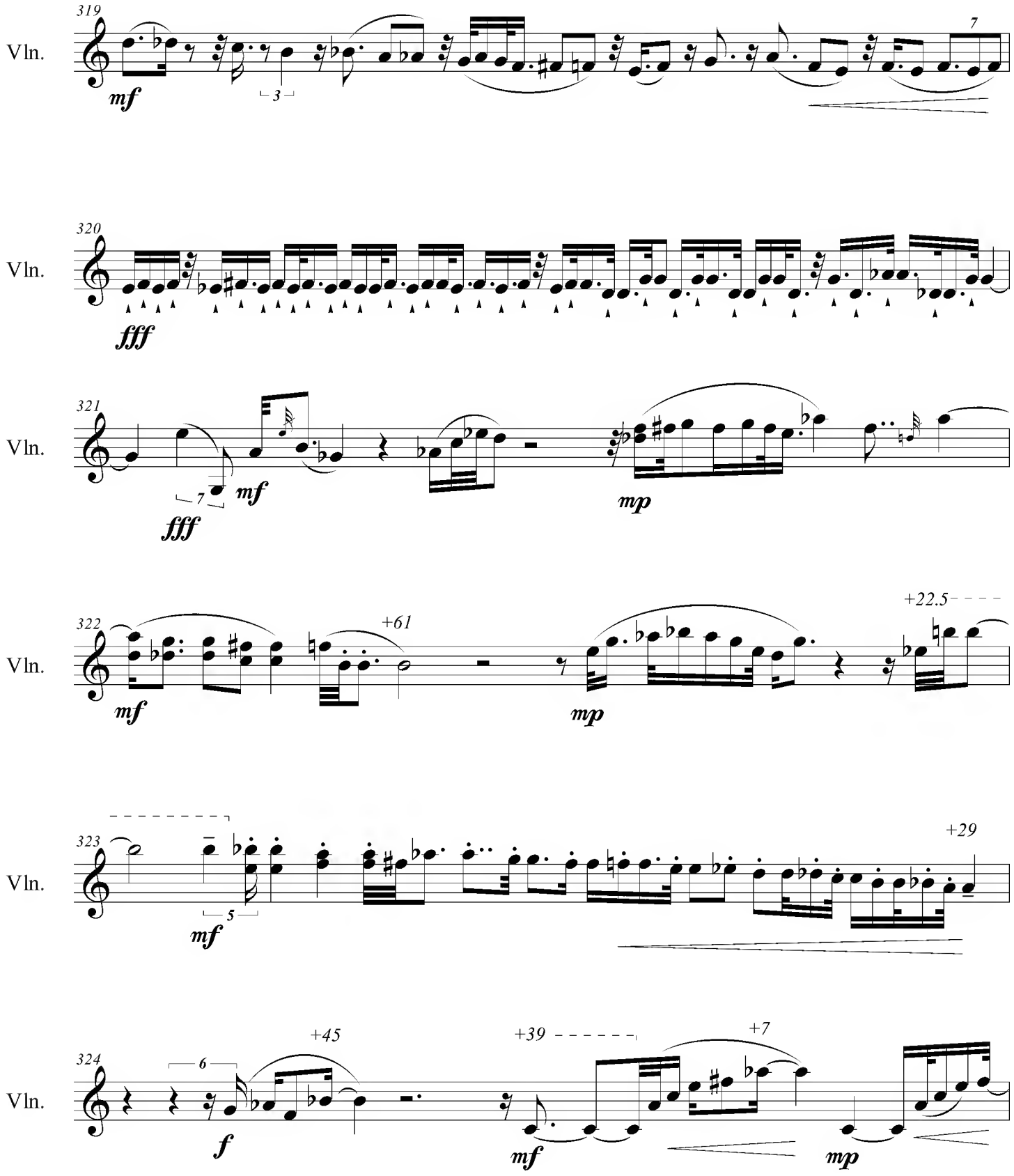

286
-35.5
-10
-10
Vln.
ff
fff
mf
287
+16
Vln.
f
288
Vln.
fff
sfz
289
Vln.
p
290
Vln.
mf
ff
291
-29
Vln.
f
ff
mp

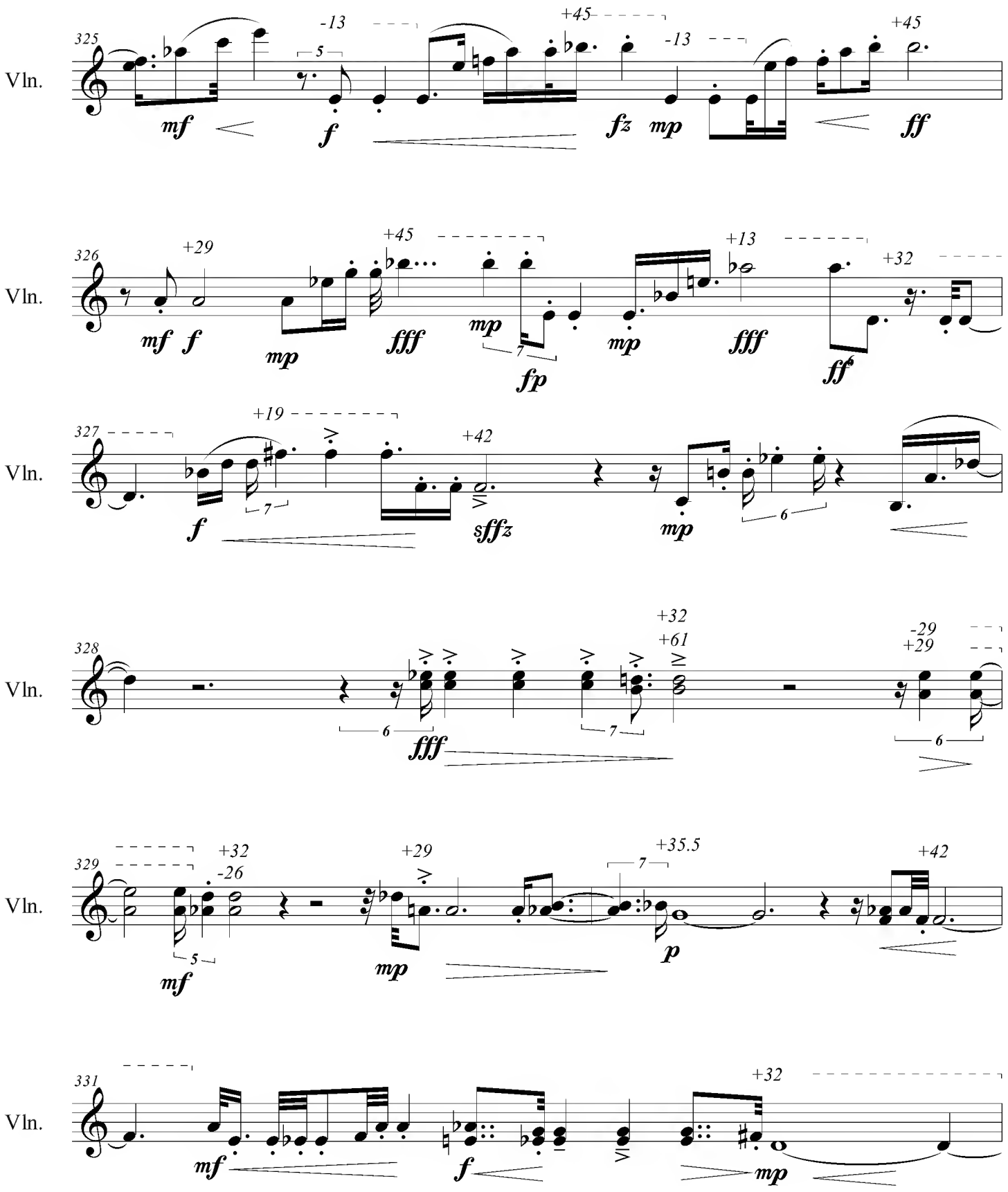

292
+55
+61
+26
Vln.
fff
mp
293
-13
Vln.
fff
ff
mp
294
Vln.
ff
f
fz
295
Vln.
sffz
296
Vln.
mf
f
mp
297
Vln.
mf

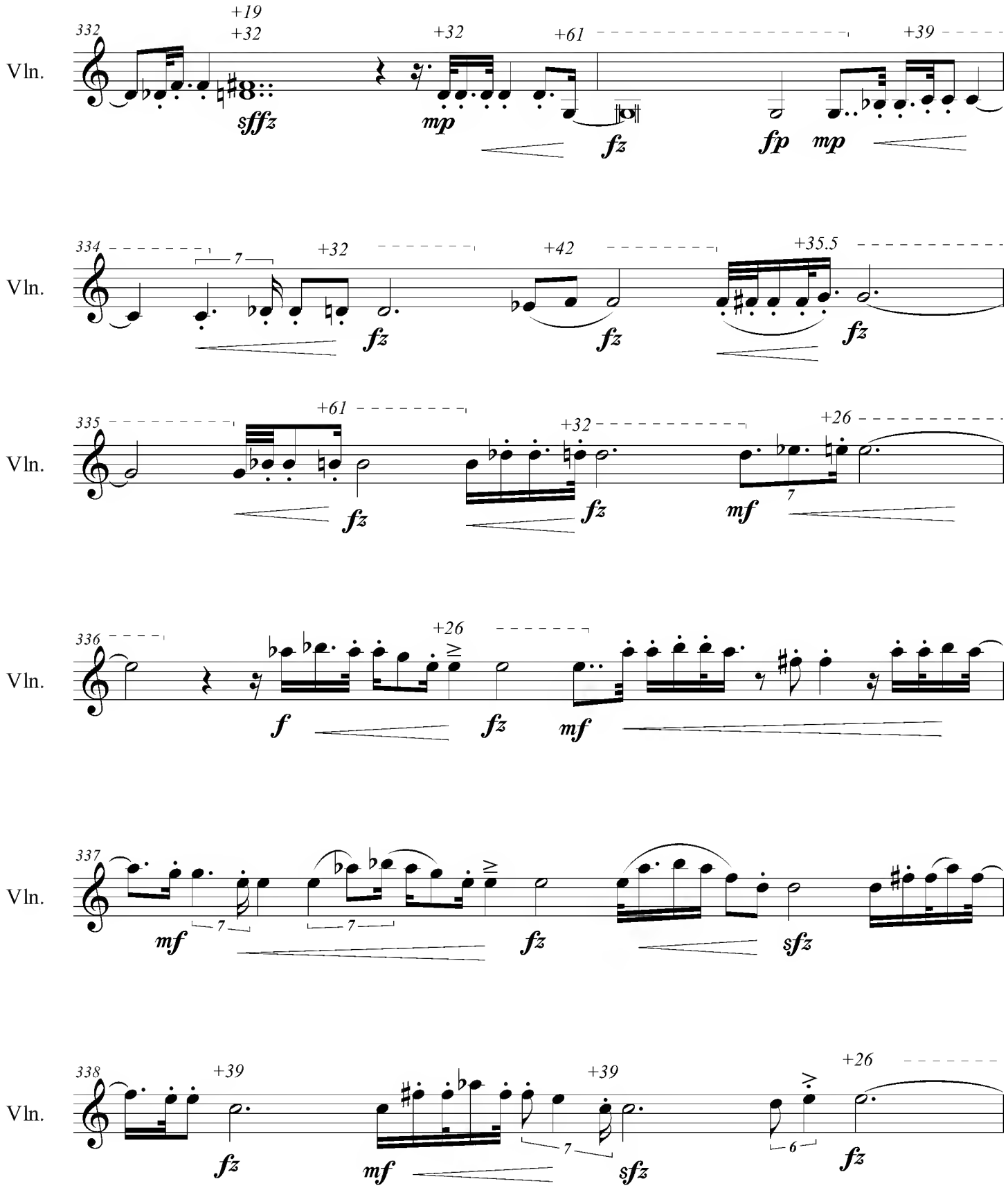

298
Vln.
mf
+45
3
+35.5
mp
+32
p
+29
pp
+26
ppp
-29
p
300
Vln.
mp
-32
+61
ff
+39
fff
mf
+39
+35.5
302
Vln.
f
+39
+26
+29
ff
3
+42
fff
304
Vln.
f
+16
+26
ff
3
3
3
6:5
305
Vln.
ff
3
3
sffz
3
3
3
306
Vln.
f
3
mp
3
sfz
+3
7:4
fz
ff


307
Vln.
mp
ffff
308
Vln.
fff
+35.5
309
Vln.
-35.5
f
310
Vln.
mp
+32
311
Vln.
mf
312
Vln.
p
+39
f


313
Vln.
mf
7
314
Vln.
5
ff
5
7
-32
fff
315
Vln.
mp
7
+42
mp
316
Vln.
7
fff
ff
7
ffff
317
Vln.
ff
6
5
f
+32
318
Vln.
mf
mp
7


319
Vln.
mf
3
7
320
Vln.
fff
321
Vln.
7
mf
fff
mp
322
Vln.
mf
+61
mp
+22.5
323
Vln.
5
mf
+29
324
Vln.
6
f
+45
+39
mf
+7
mp


Vln.
325
-13
+45
-13
+45
mf
f
fz
mp
ff
Vln.
326
+29
+45
+13
+32
mf
f
mp
fff
mp
fp
mp
fff
ff
Vln.
327
+19
+42
f
sffz
mp
Vln.
328
+32
+61
-29
+29
fff
Vln.
329
+32
-26
+29
+35.5
+42
mf
mp
p
Vln.
331
+32
mf
f
mp


Vln.
332
+19
+32
+32
+61
+39
sffz
mp
fz
fp
mp
334
7
+32
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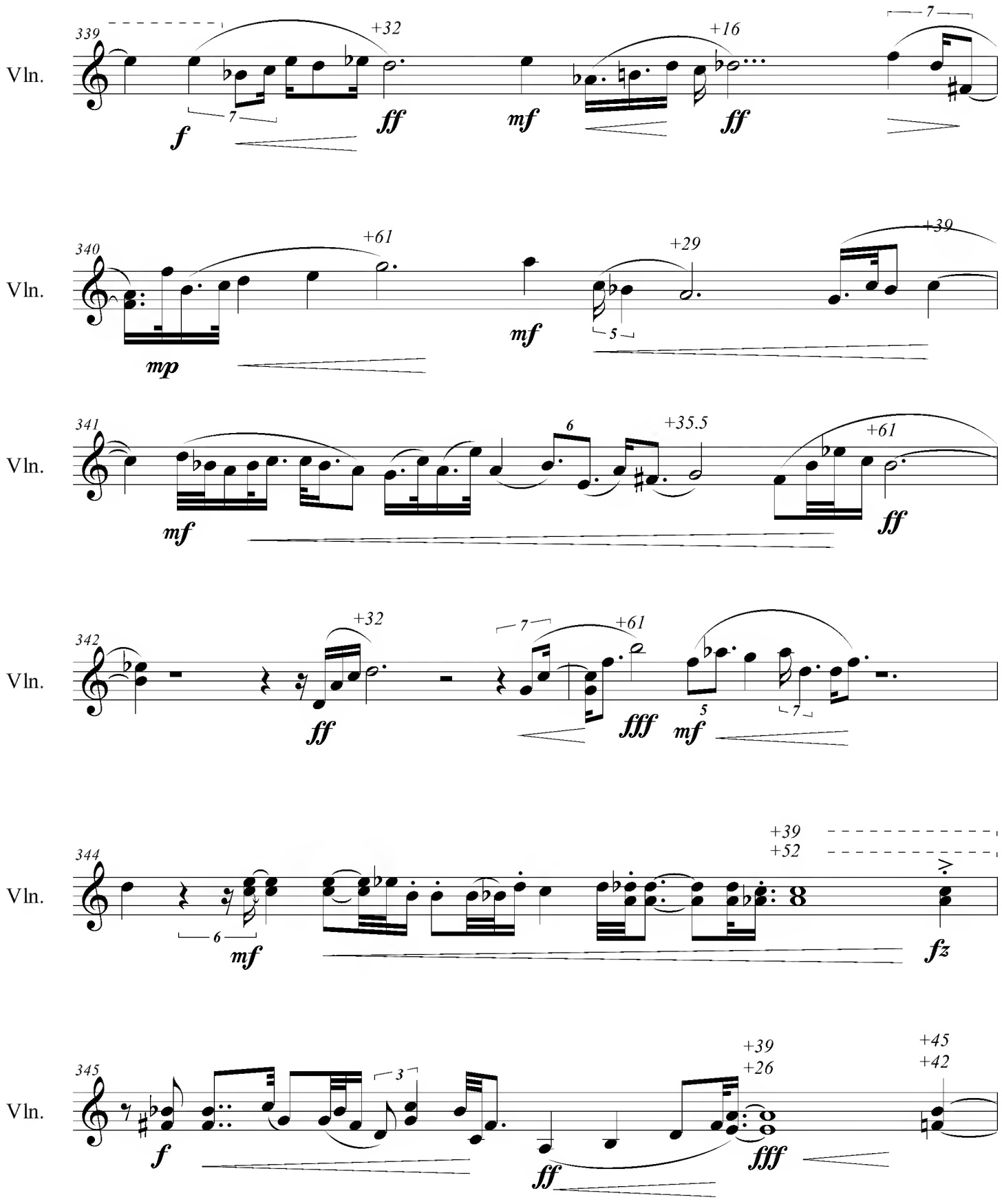
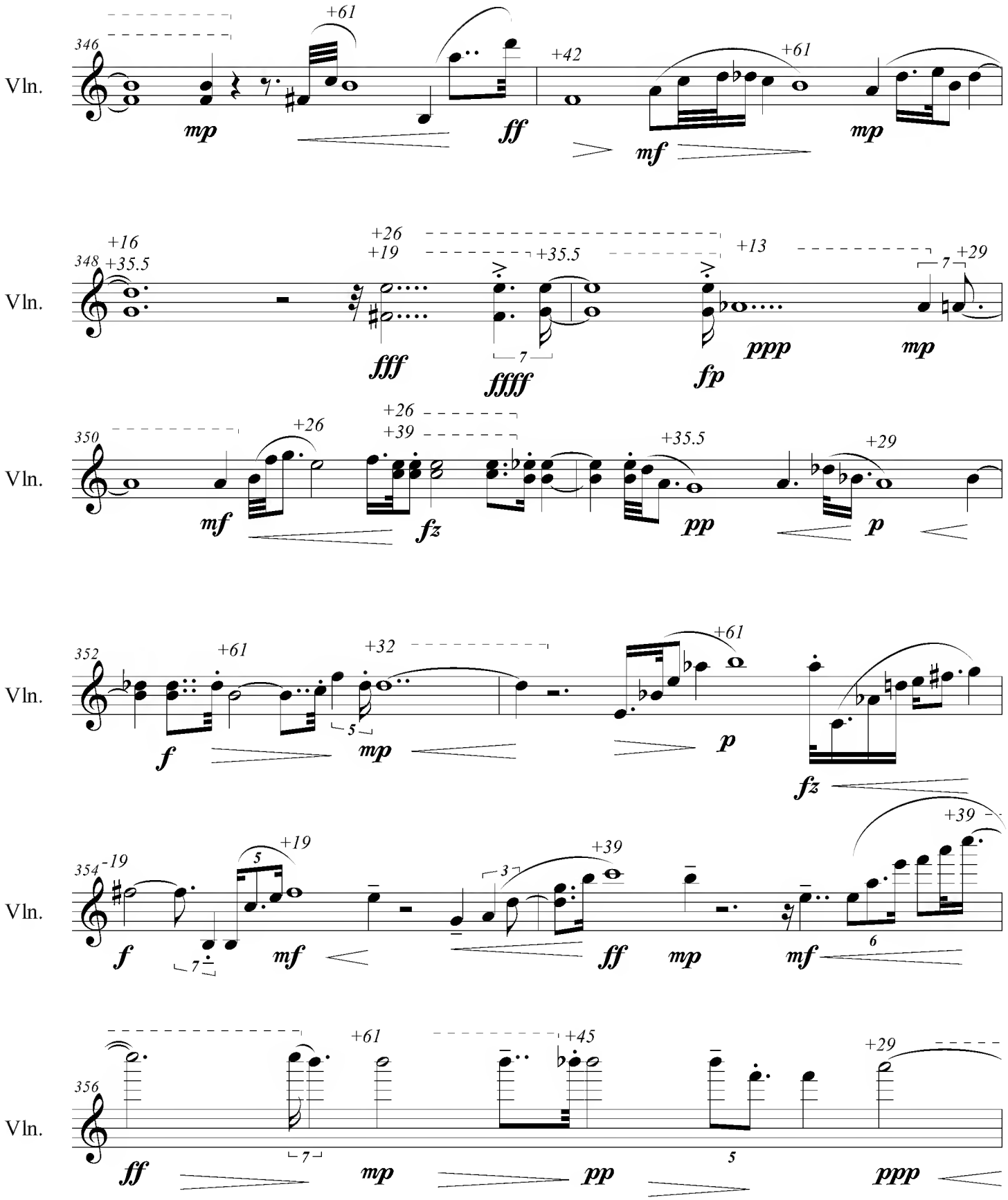
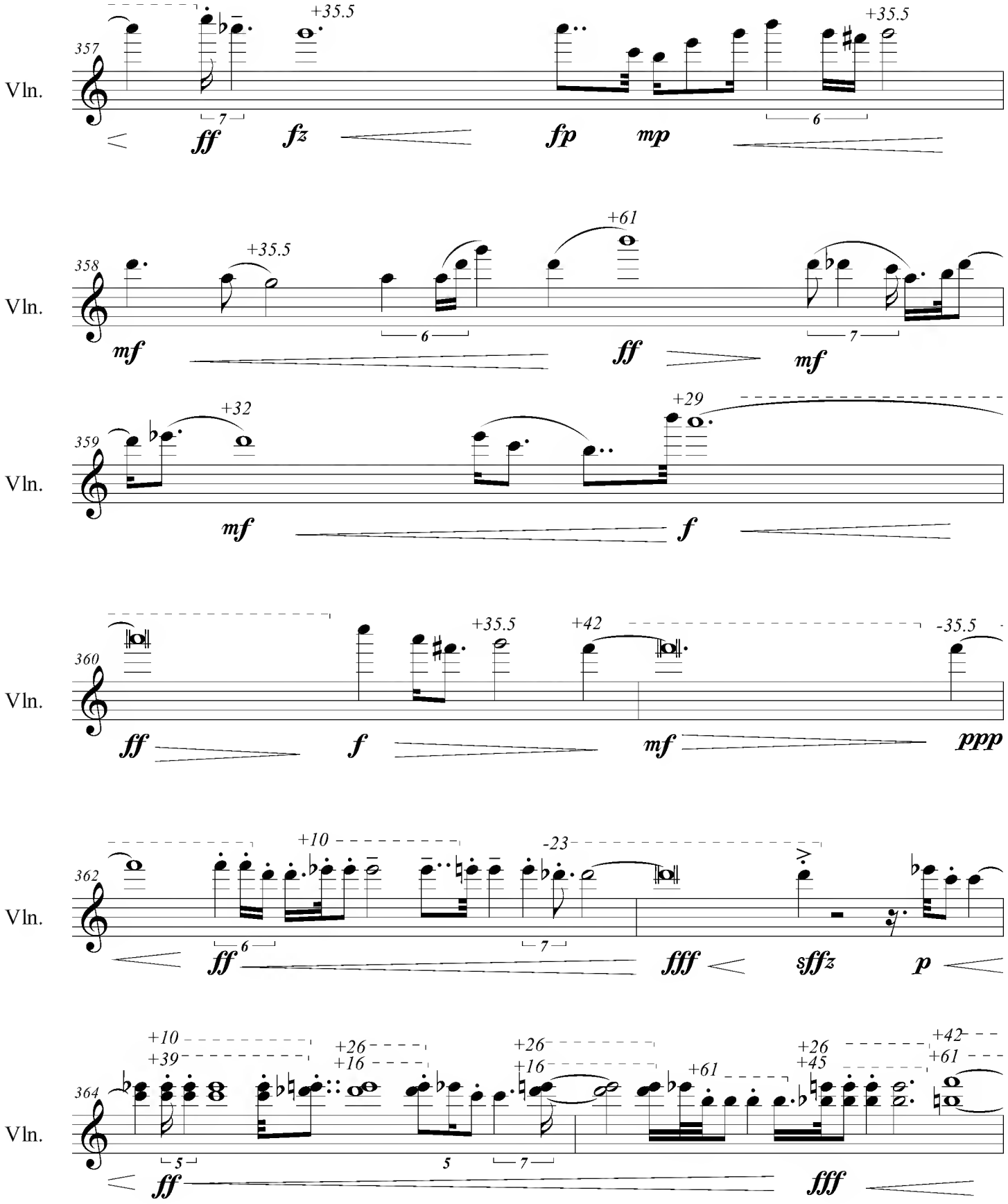
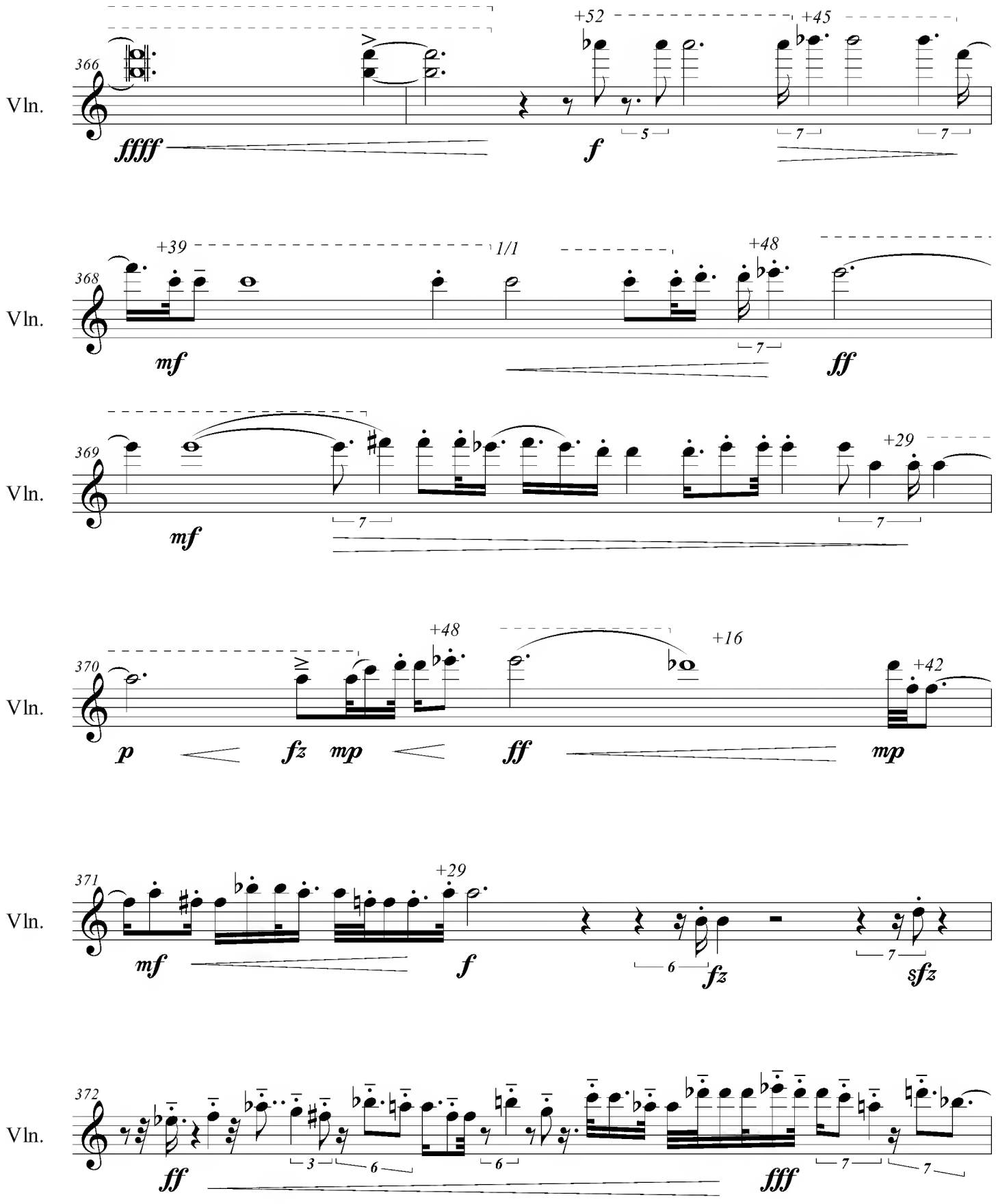
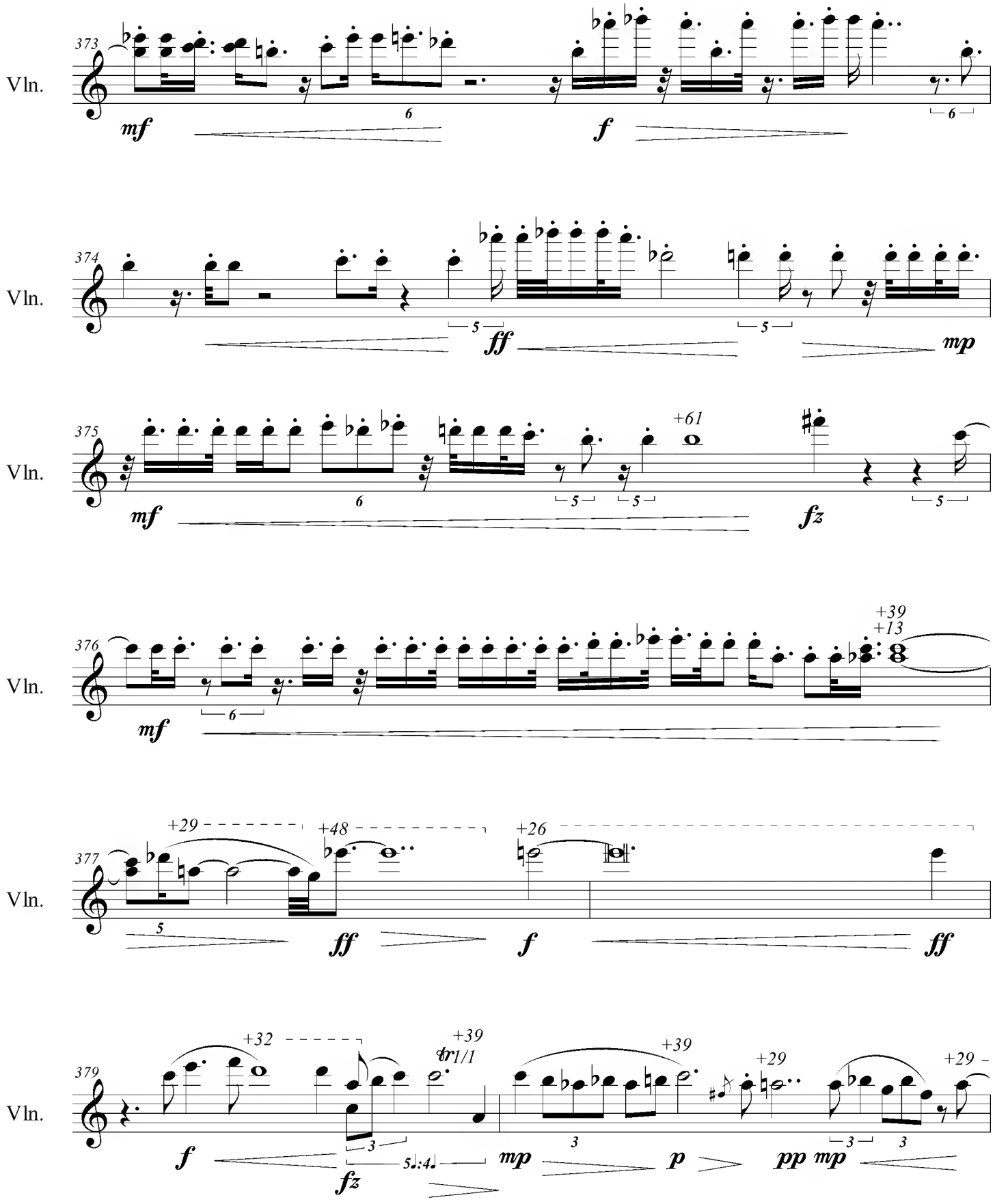
+35.5
fz
fz
fz
335
+61
+32
+26
fz
fz
mf
7
336
+26
f
fz
mf
337
mf
7
7
fz
sfz
338
+39
+39
+26
fz
mf
7
sfz
6
fz

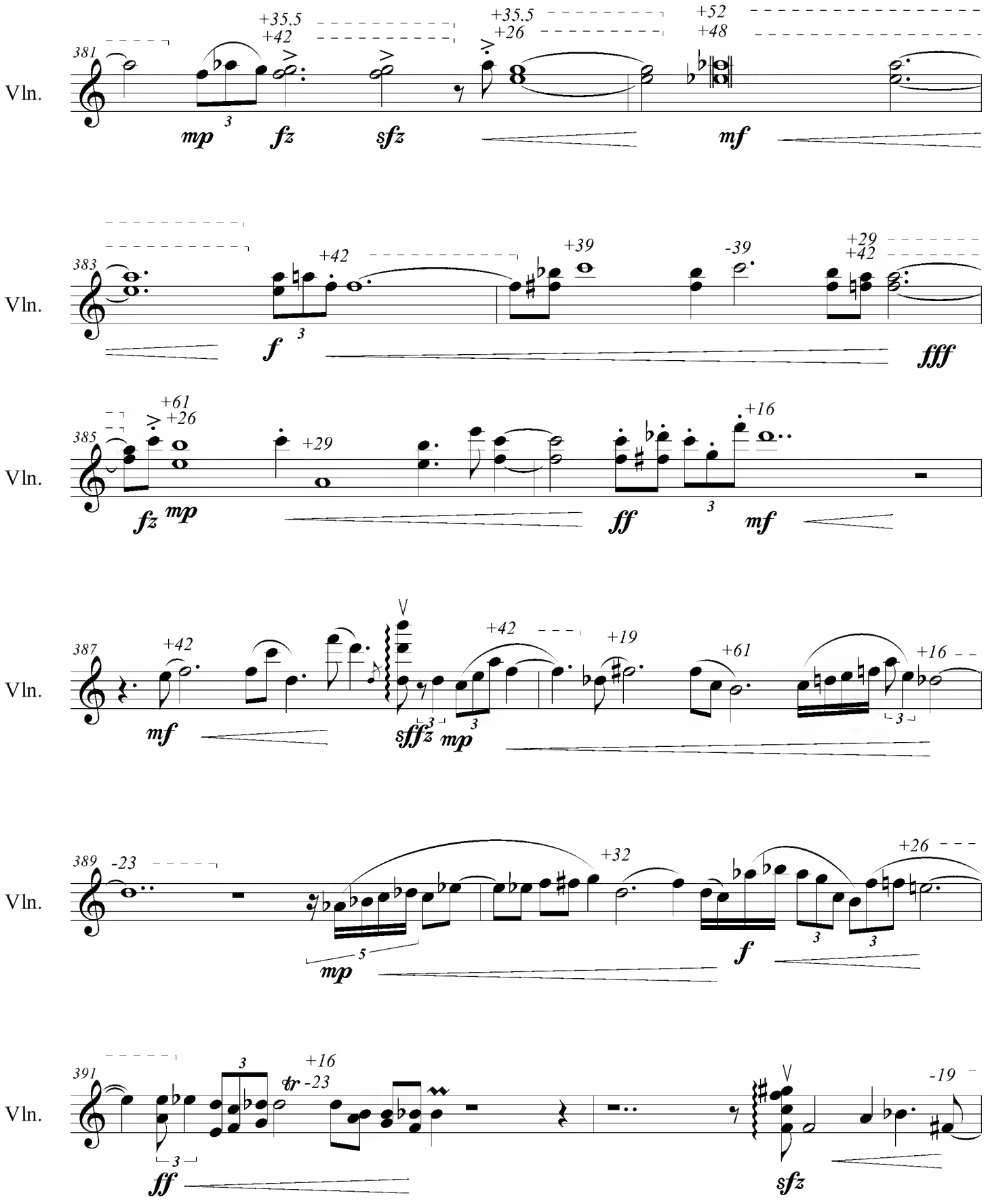

339
Vln.
+32
+16
7
f
7
ff
mf
ff
340
Vln.
+61
+29
+39
mp
mf
5
341
Vln.
6
+35.5
+61
mf
ff
342
Vln.
+32
7
+61
ff
fff
mf
5
7
344
Vln.
+39
+52
6
mf
fz
345
Vln.
3
+39
+26
+45
+42
f
ff
fff

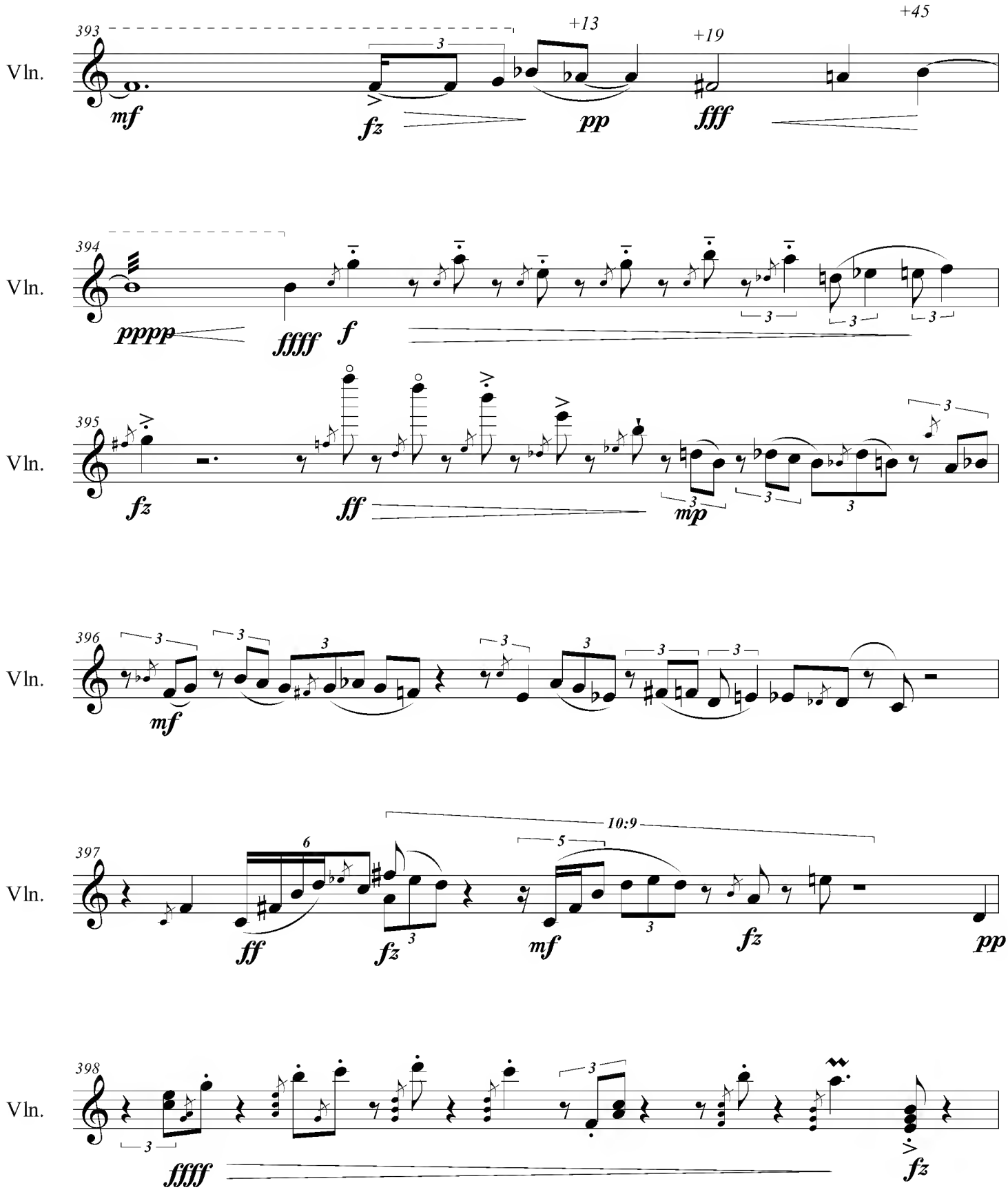

346
Vln.
mp
+61
ff
+42
mf
+61
mp
348
+16
+35.5
+26
+19
+35.5
+13
+29
fff
ffff
fp
ppp
mp
350
mf
+26
+26
+39
fz
+35.5
pp
+29
p
352
f
+61
+32
mp
+61
p
fz
354
-19
+19
+39
+39
f
mf
ff
mp
mf
356
ff
+61
mp
+45
pp
+29
ppp

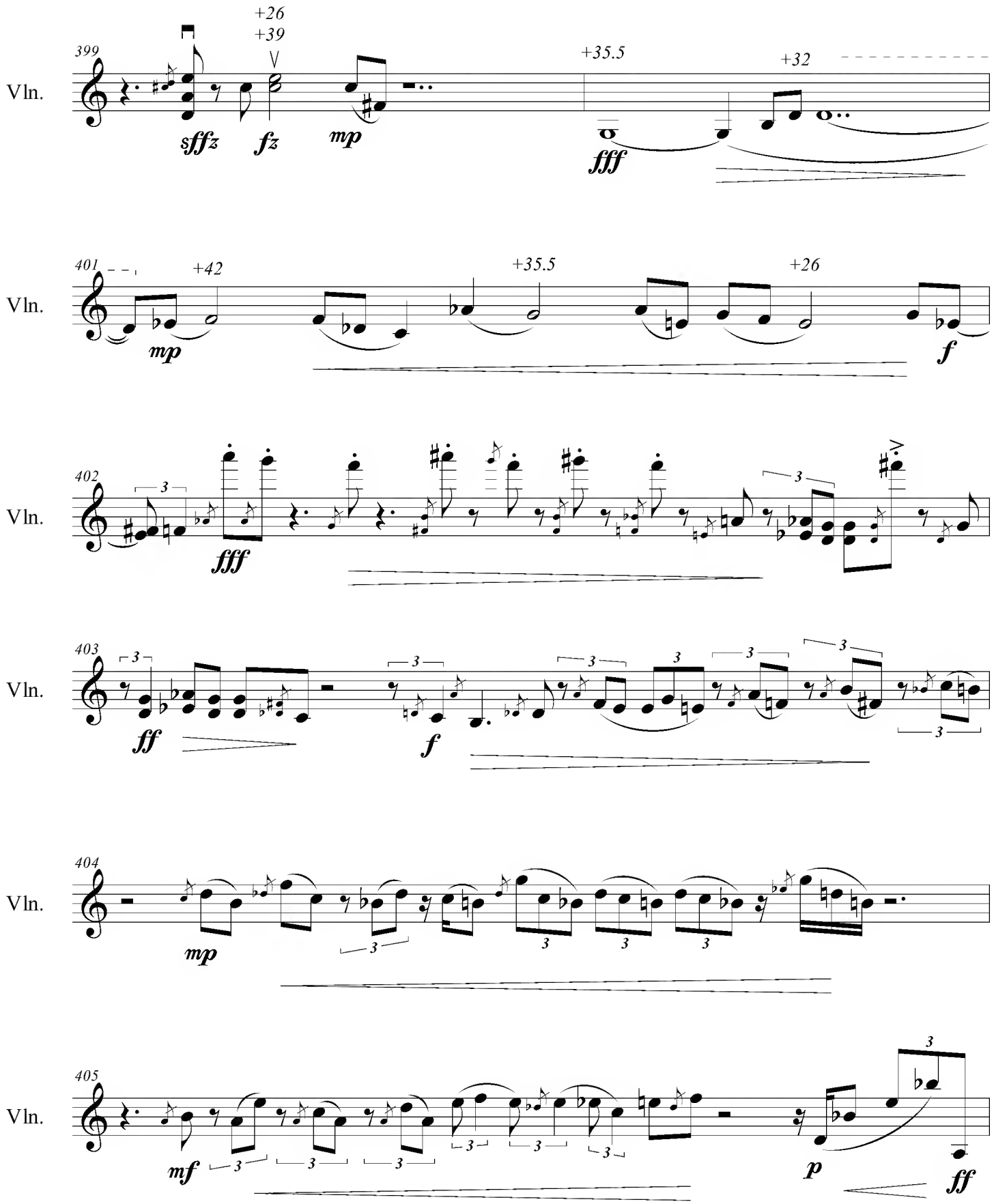

357
Vln.
+35.5
+35.5
7
6
ff
fz
fp
mp
358
Vln.
+35.5
+61
6
7
mf
ff
mf
359
Vln.
+32
+29
mf
f
360
Vln.
+35.5
+42
-35.5
ff
f
mf
ppp
362
Vln.
+10
-23
6
7
ff
fff
sffz
p
364
Vln.
+10
+39
+26
+16
+26
+16
+61
+26
+45
+42
+61
5
5
7
ff
fff

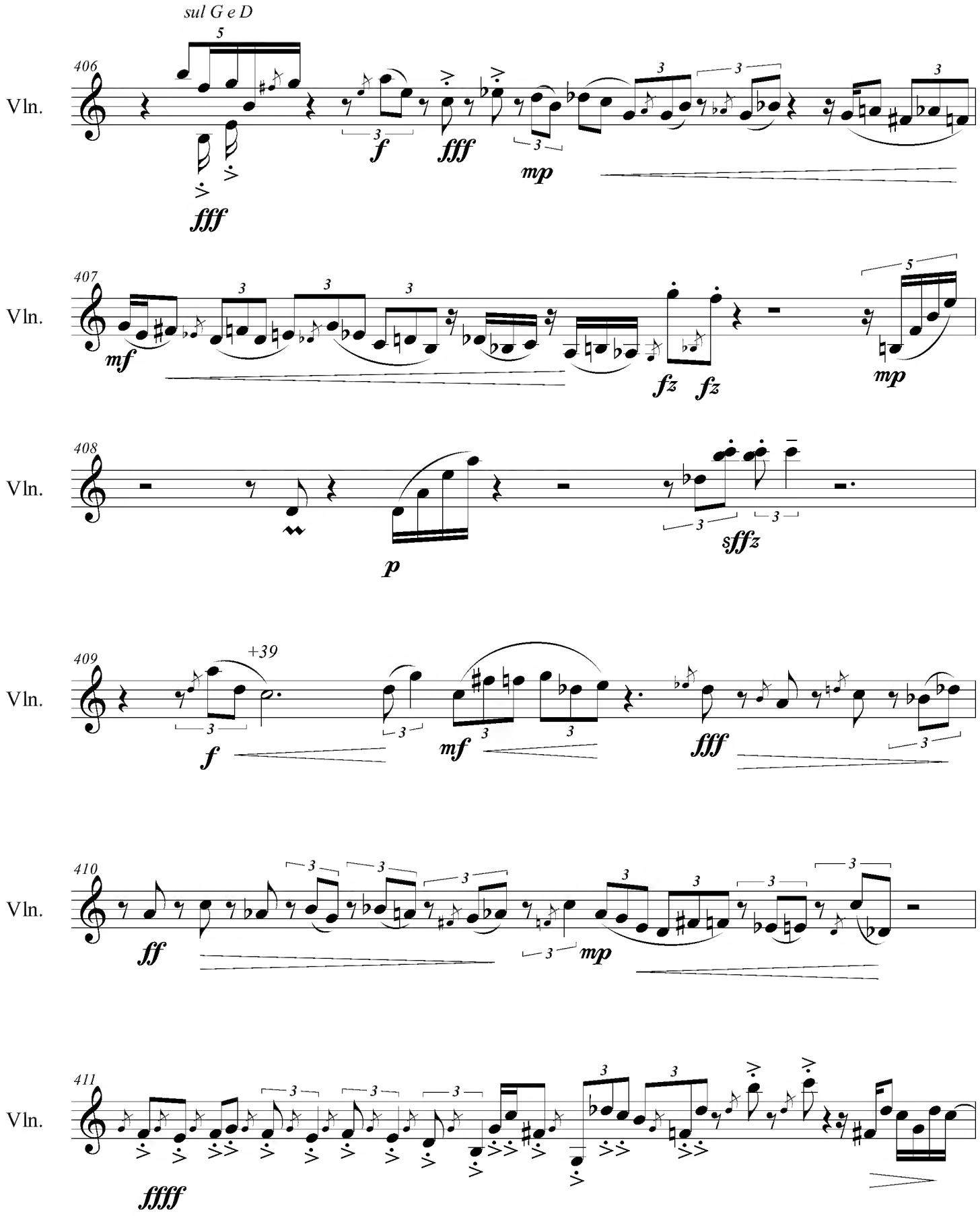

366
Vln.
ffff
+52
+45
f
5
7
7
368
Vln.
+39
1/1
+48
mf
7
ff
369
Vln.
mf
7
7
+29
370
Vln.
+48
+16
+42
p
fz
mp
ff
mp
371
Vln.
+29
mf
f
6
fz
7
sfz
372
Vln.
ff
3
6
6
fff
7
7

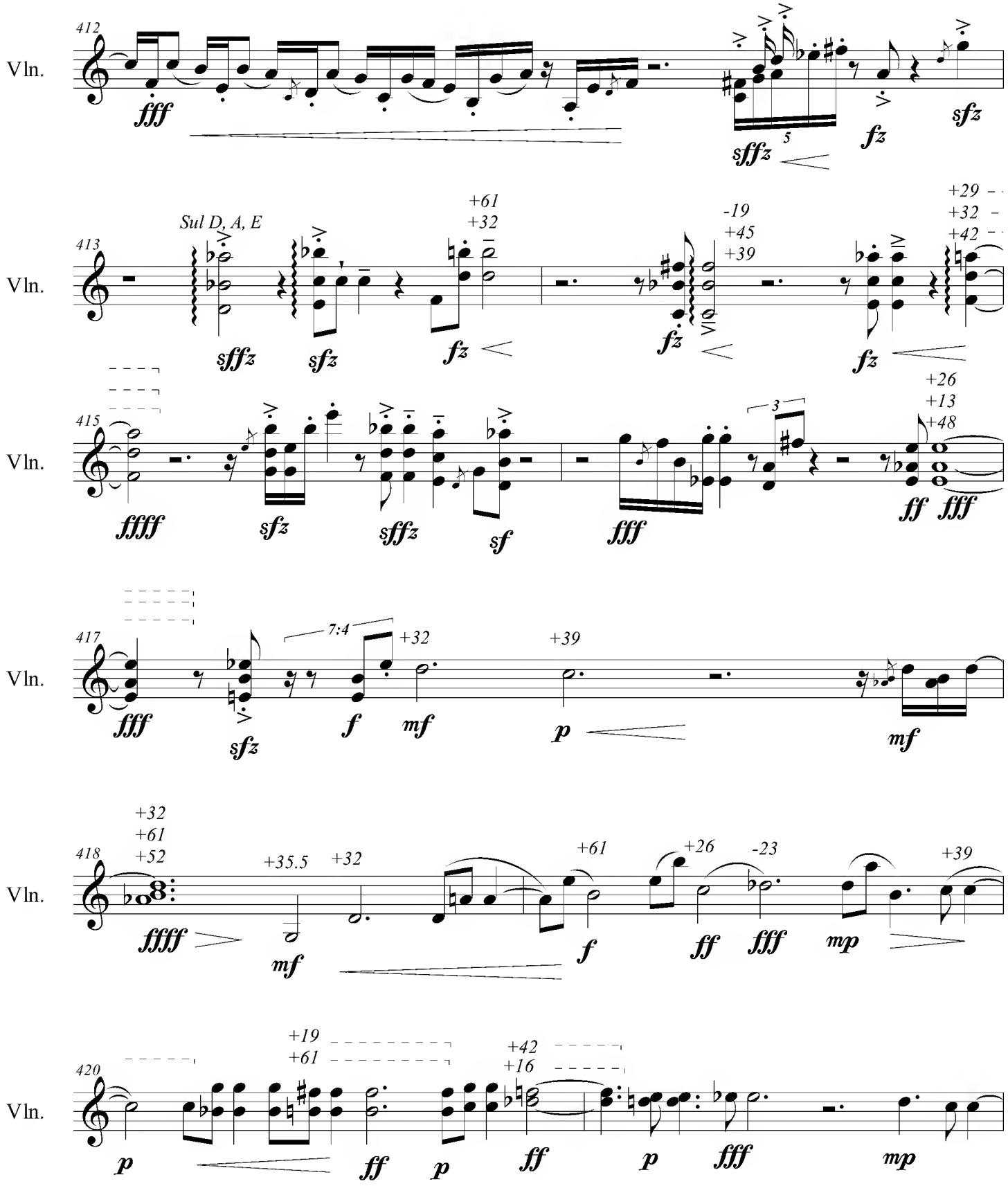

373
Vln.
mf
f
374
Vln.
ff
mp
375
Vln.
+61
mf
fz
376
Vln.
+39
+13
mf
377
Vln.
+29
+48
+26
ff
f
ff
379
Vln.
+32
+39
tr1/1
+39
+29
+29
f
fz
mp
p
pp
mp

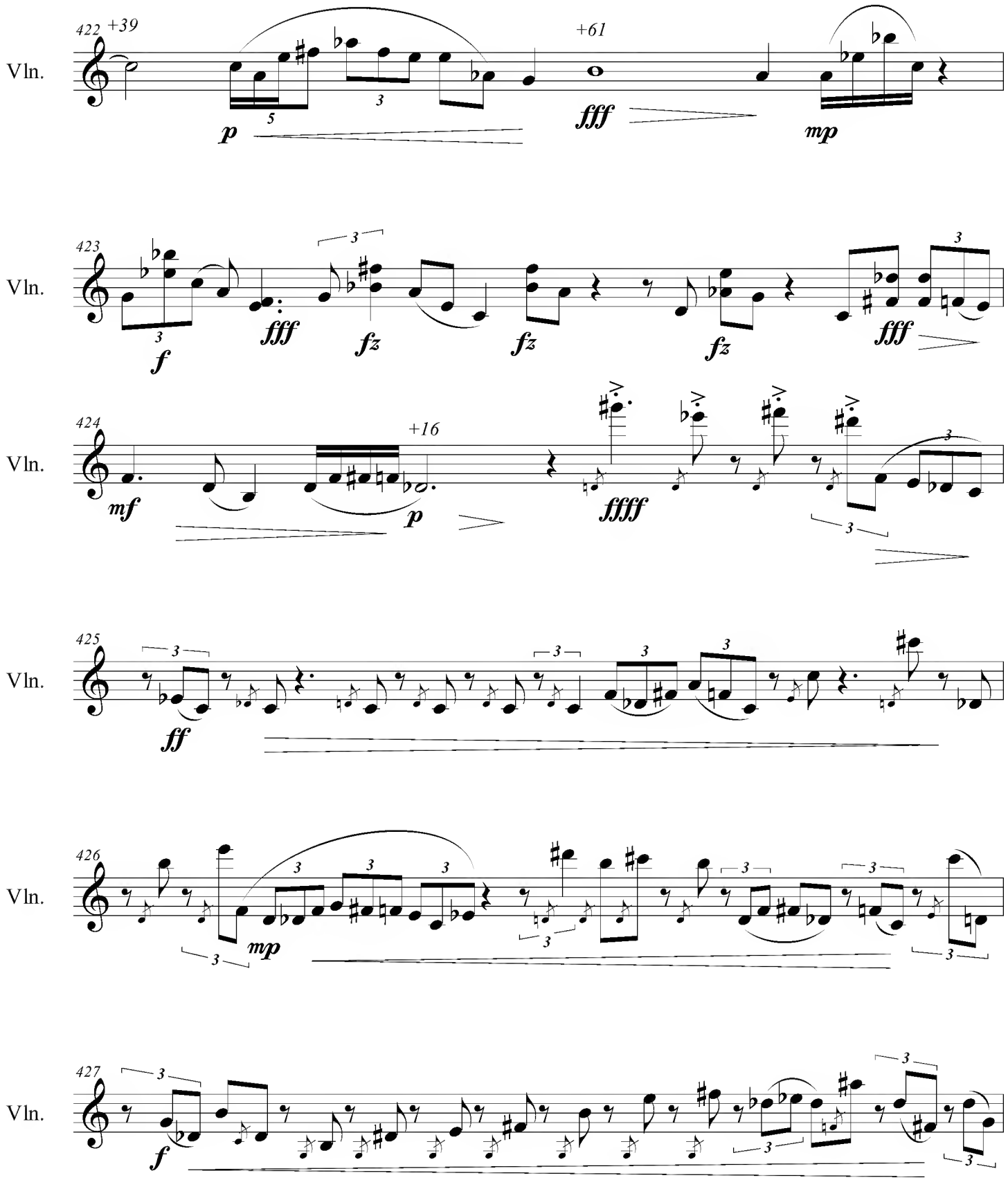

Vln.
381
+35.5
+42
+35.5
+26
+52
+48
mp
3
fz
sfz
mf
Vln.
383
+42
+39
-39
+29
+42
f
3
fff
Vln.
385
+61
+26
+29
+16
fz
mp
ff
3
mf
Vln.
387
+42
+42
+19
+61
+16
mf
sffz
3
mp
3
3
Vln.
389
-23
+32
+26
mp
5
f
3
3
Vln.
391
3
+16
-23
ff
3
sfz
-19

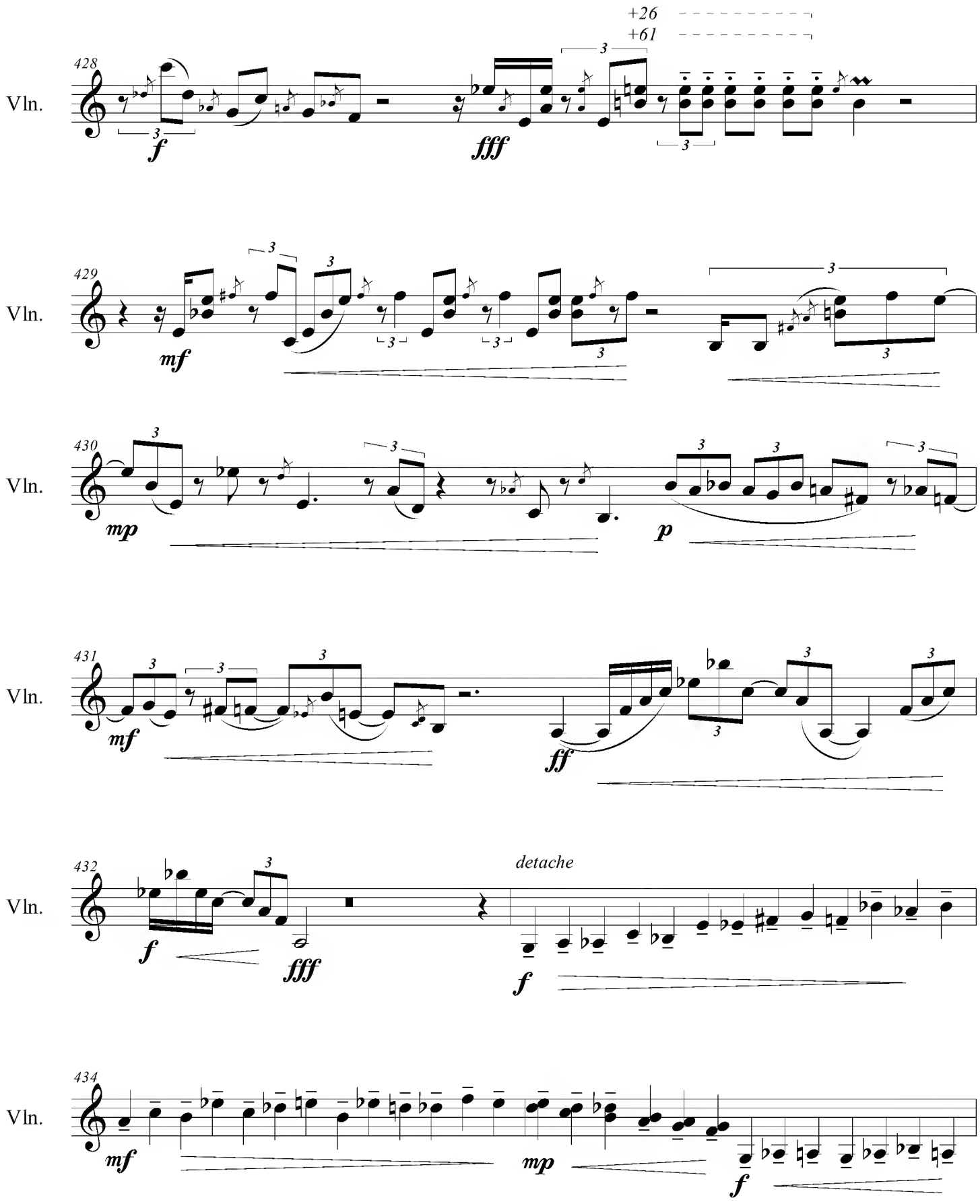

393
+13
+19
+45
Vln.
mf
fz
pp
fff
394
Vln.
pppp
ffff
f
395
Vln.
fz
ff
mp
396
Vln.
mf
397
10:9
Vln.
ff
fz
mf
fz
pp
398
Vln.
ffff
fz

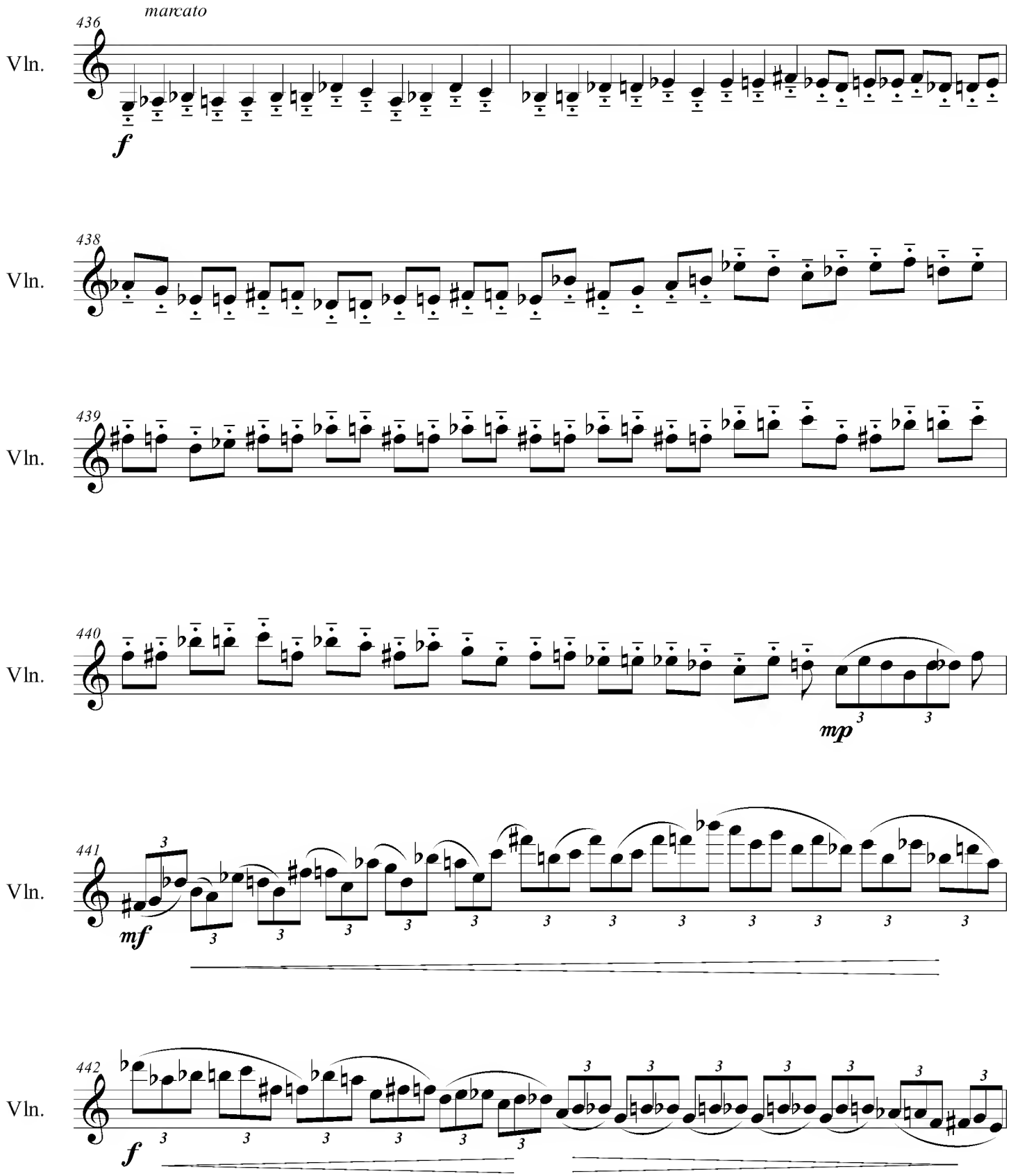

399
+26
+39
+35.5
+32
Vln.
sffz
fz
mp
fff
401
+42
+35.5
+26
Vln.
mp
f
402
Vln.
fff
403
Vln.
ff
f
404
Vln.
mp
405
Vln.
mf
p
ff

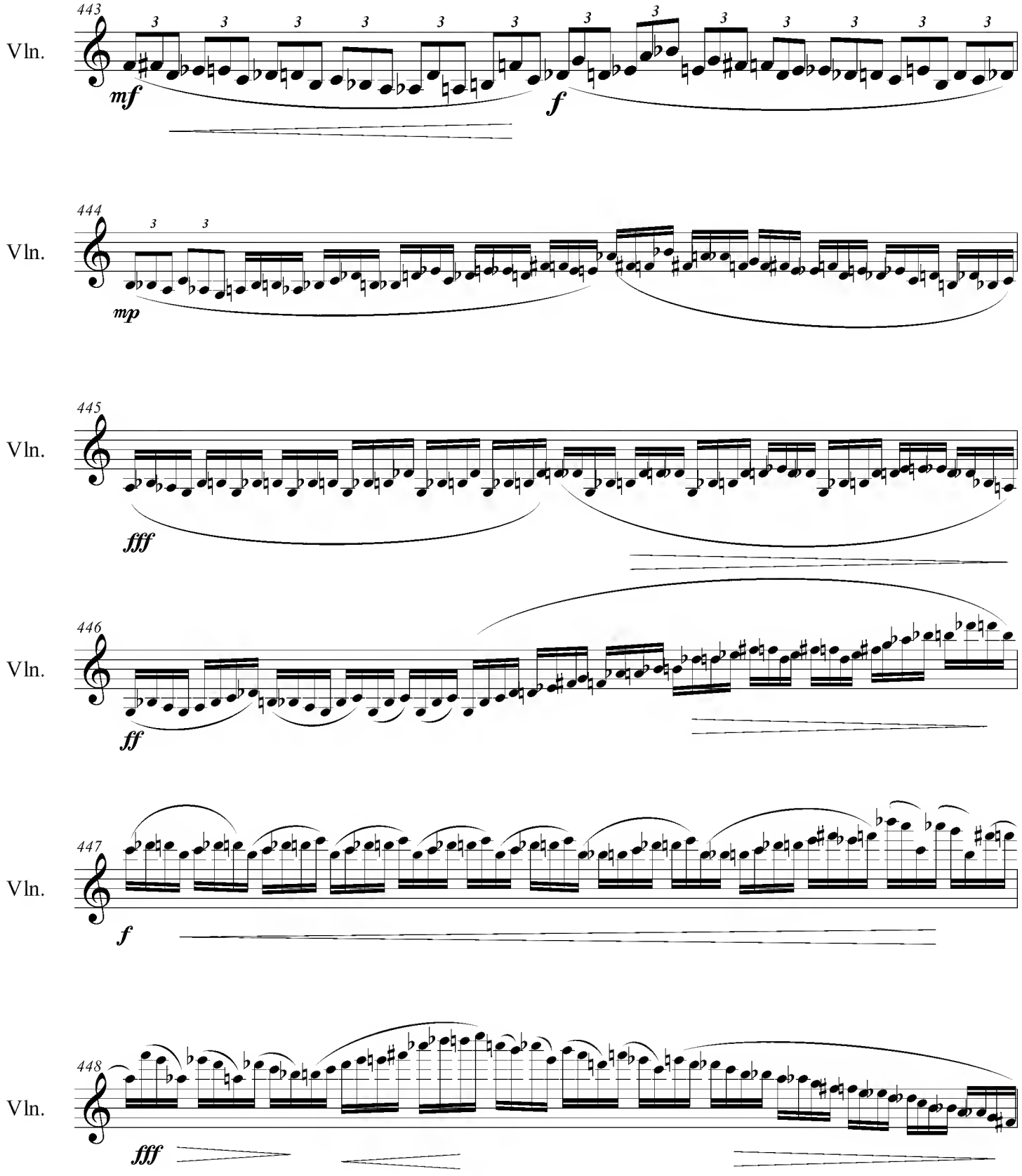

sul G e D
406
Vln.
fff
f
fff
mp
407
Vln.
mf
fz
fz
mp
408
Vln.
p
sffz
409
Vln.
+39
f
mf
fff
410
Vln.
ff
mp
411
Vln.
ffff

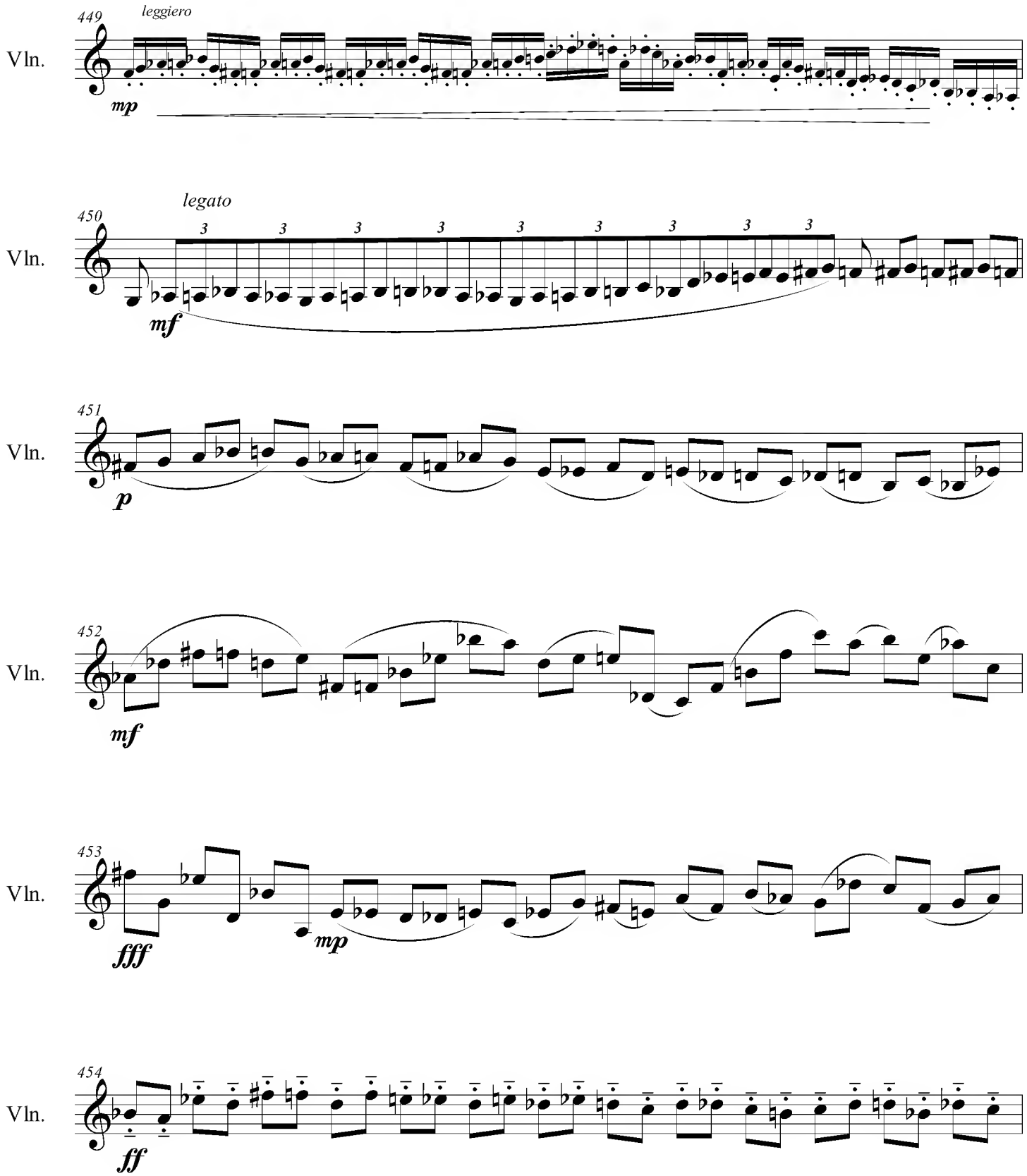

412
Vln.
fff
sffz
5
fz
sfz
413
Sul D, A, E
+61
+32
-19
+45
+39
+29
+32
+42
sffz
sfz
fz
fz
fz
415
+26
+13
+48
3
ffff
sfz
sffz
sf
fff
ff
fff
417
7:4
+32
+39
fff
sfz
f
mf
p
mf
418
+32
+61
+52
+35.5
+32
+61
+26
-23
+39
ffff
mf
f
ff
fff
mp
420
+19
+61
+42
+16
p
ff
p
ff
p
fff
mp

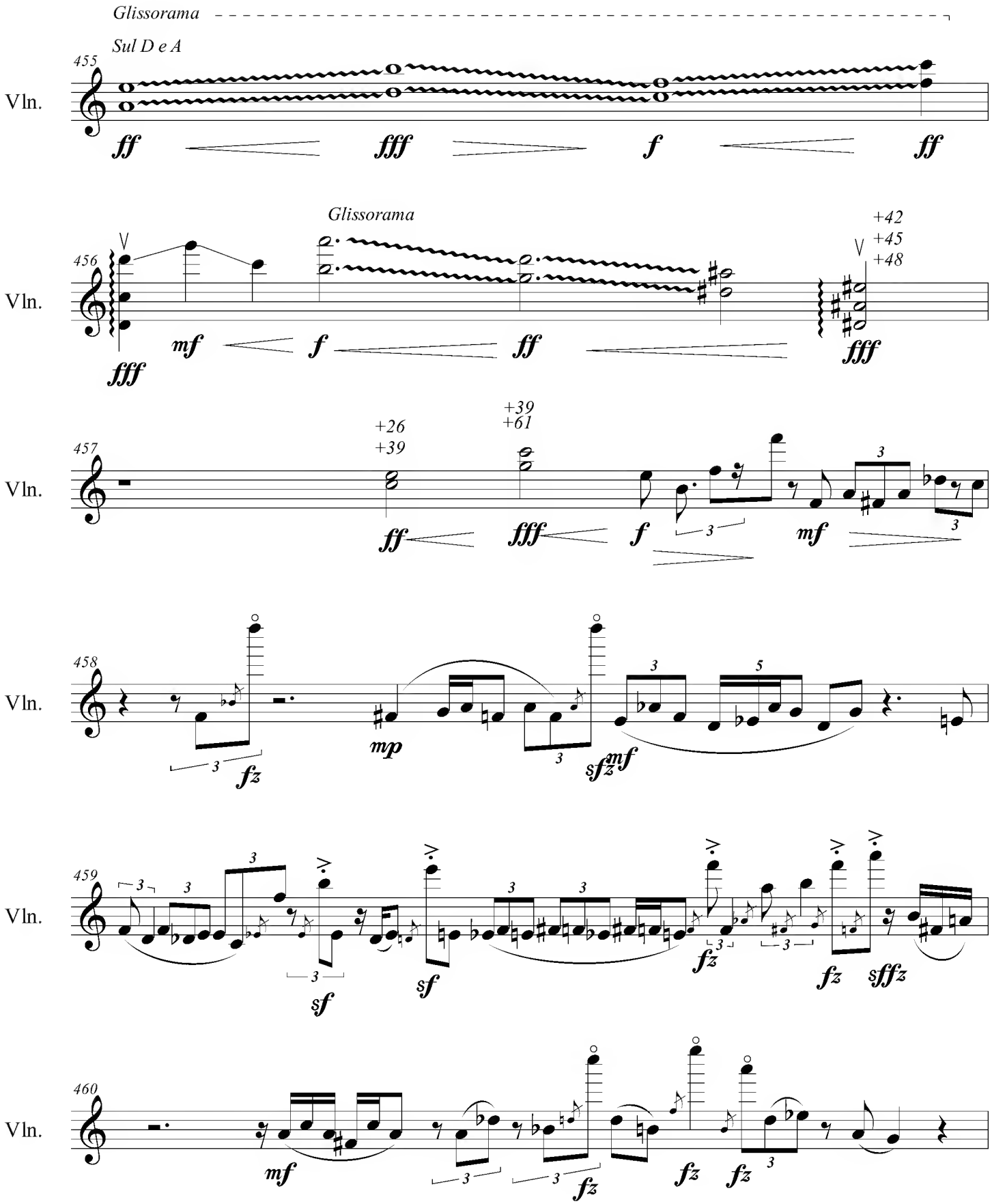

422 +39
+61
Vln.
p
fff
mp
423
Vln.
f
fff
fz
fz
fz
fff
424
Vln.
mf
+16
p
ffff
425
Vln.
ff
426
Vln.
mp
427
Vln.
f

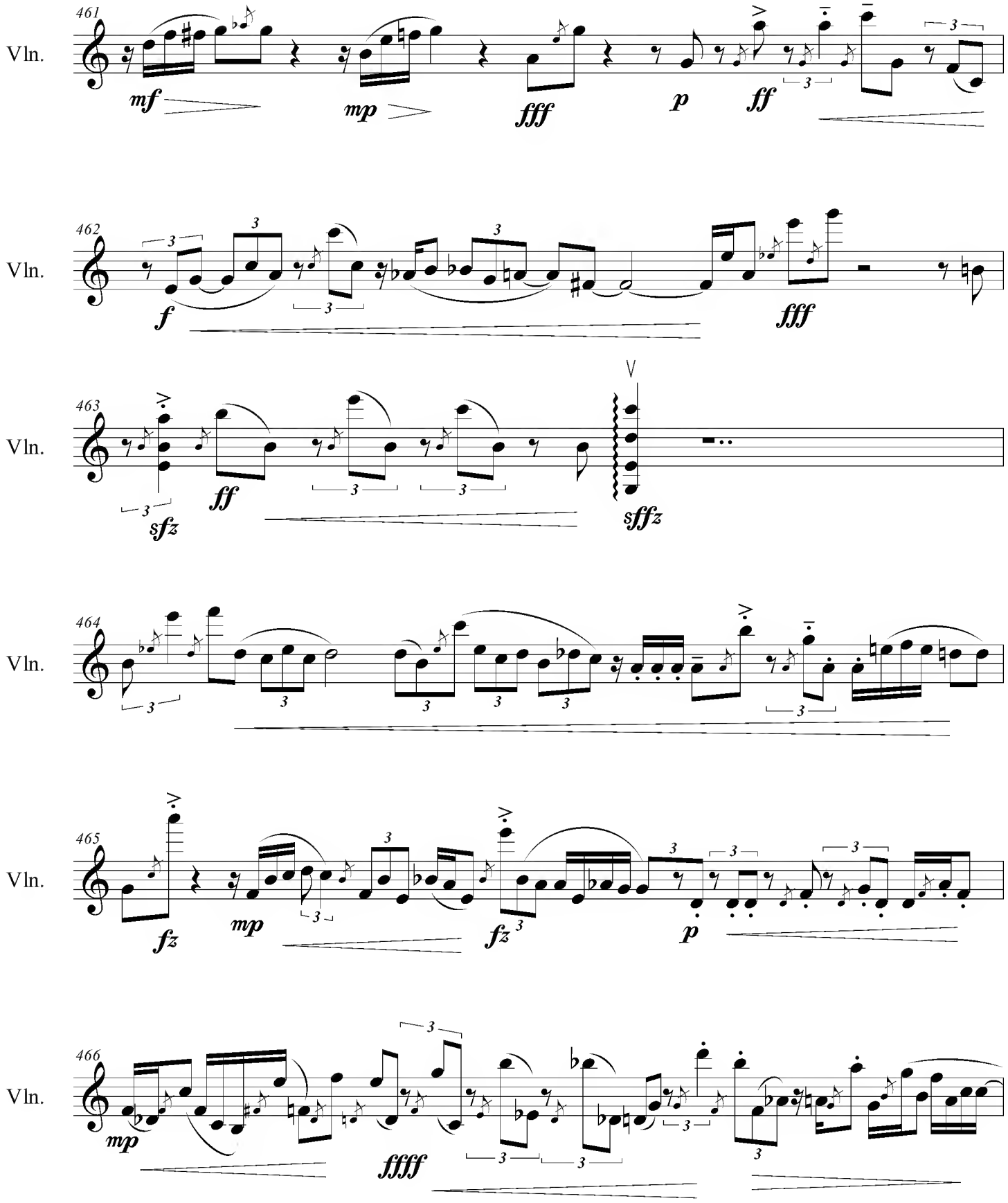

+26
+61
428
Vln.
f
fff
429
Vln.
mf
430
Vln.
mp
p
431
Vln.
mf
ff
432
Vln.
f
fff
detache
f
434
Vln.
mf
mp
f

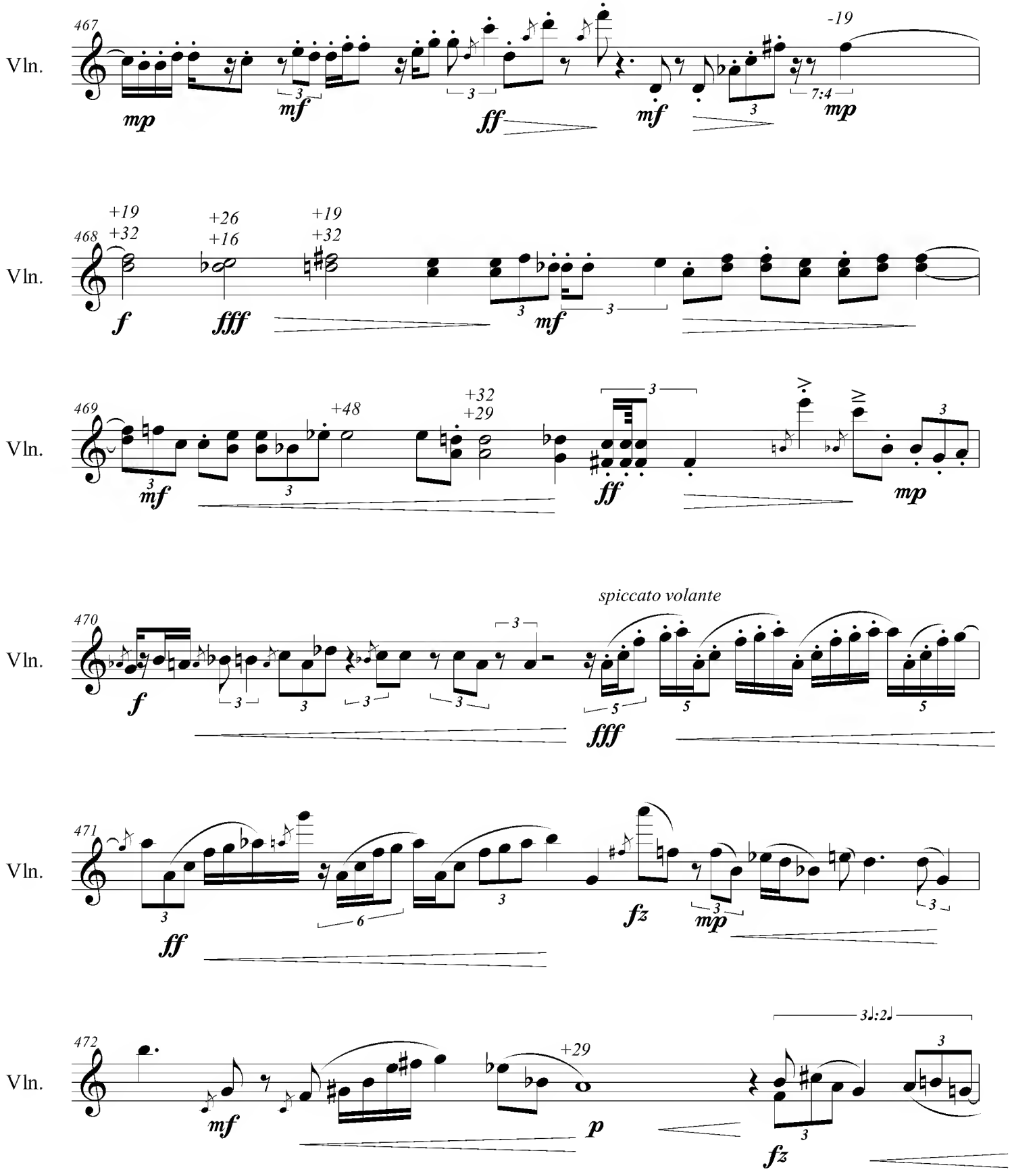

marcato
436
Vln.
f
438
Vln.
439
Vln.
440
Vln.
mp
441
Vln.
mf
442
Vln.
f

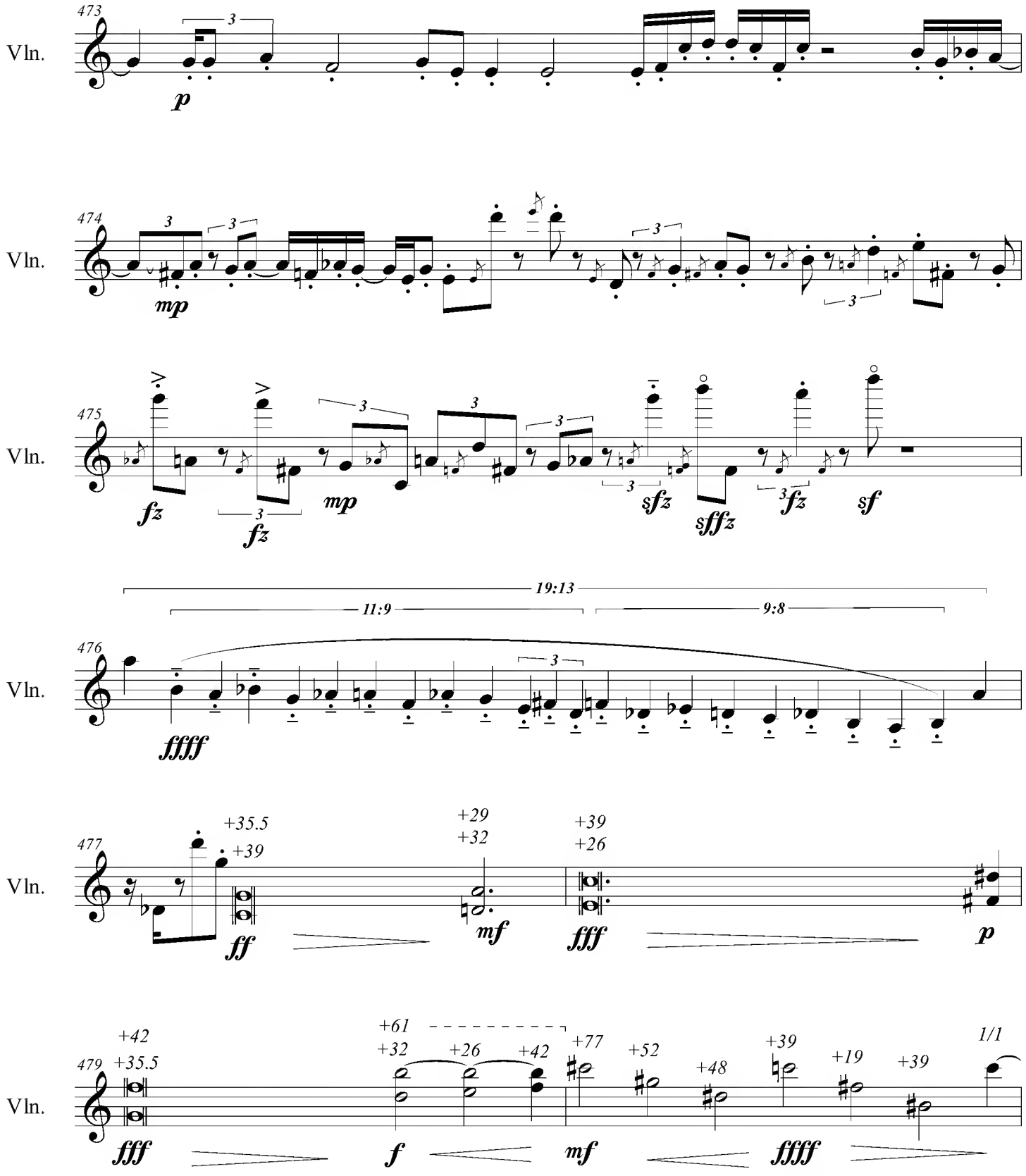

443
Vln.
mf
f
444
Vln.
mp
445
Vln.
fff
446
Vln.
ff
447
Vln.
f
448
Vln.
fff

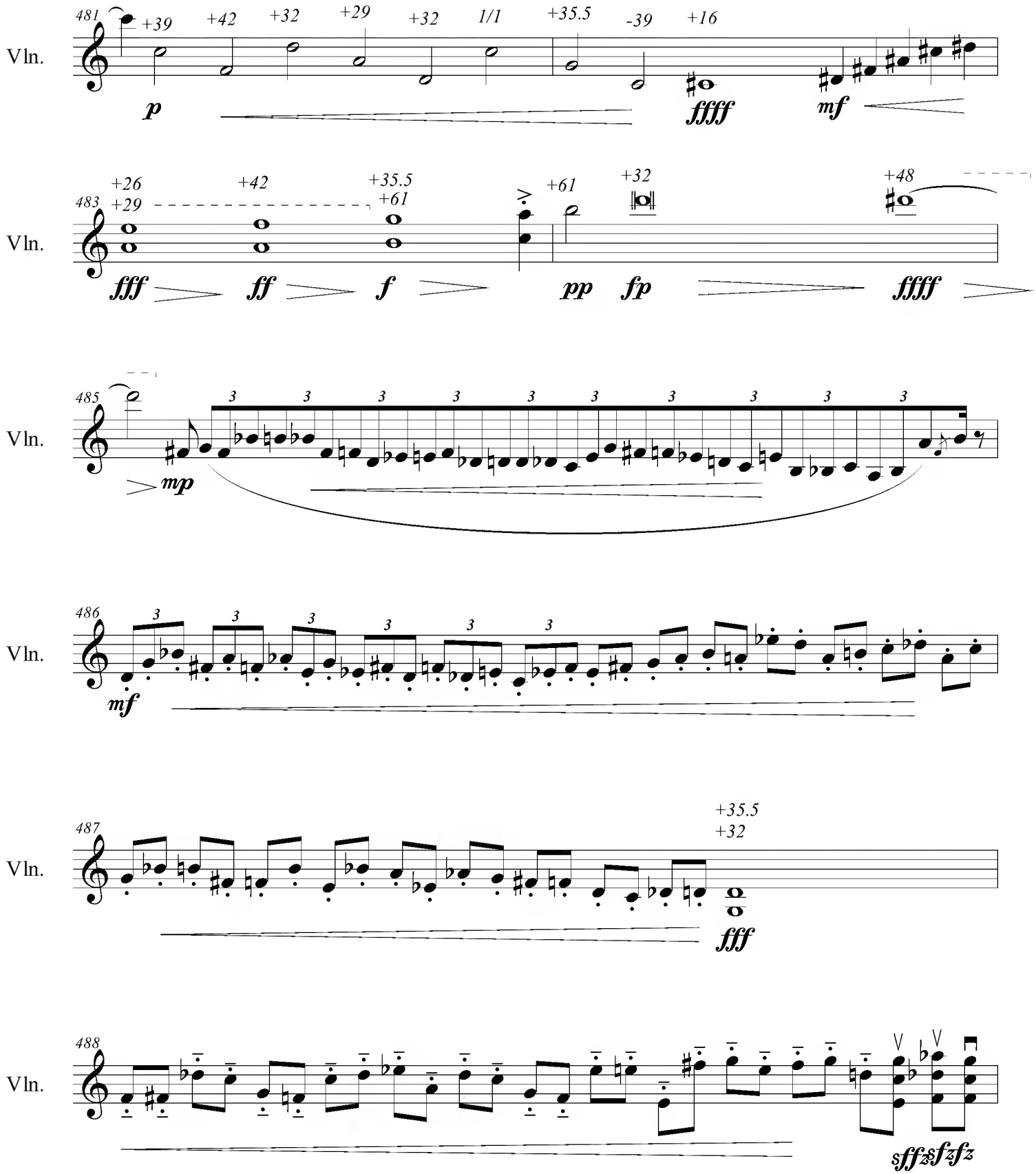

449
leggiero
Vln.
mp
450
legato
Vln.
mf
451
Vln.
p
452
Vln.
mf
453
Vln.
fff
mp
454
Vln.
ff

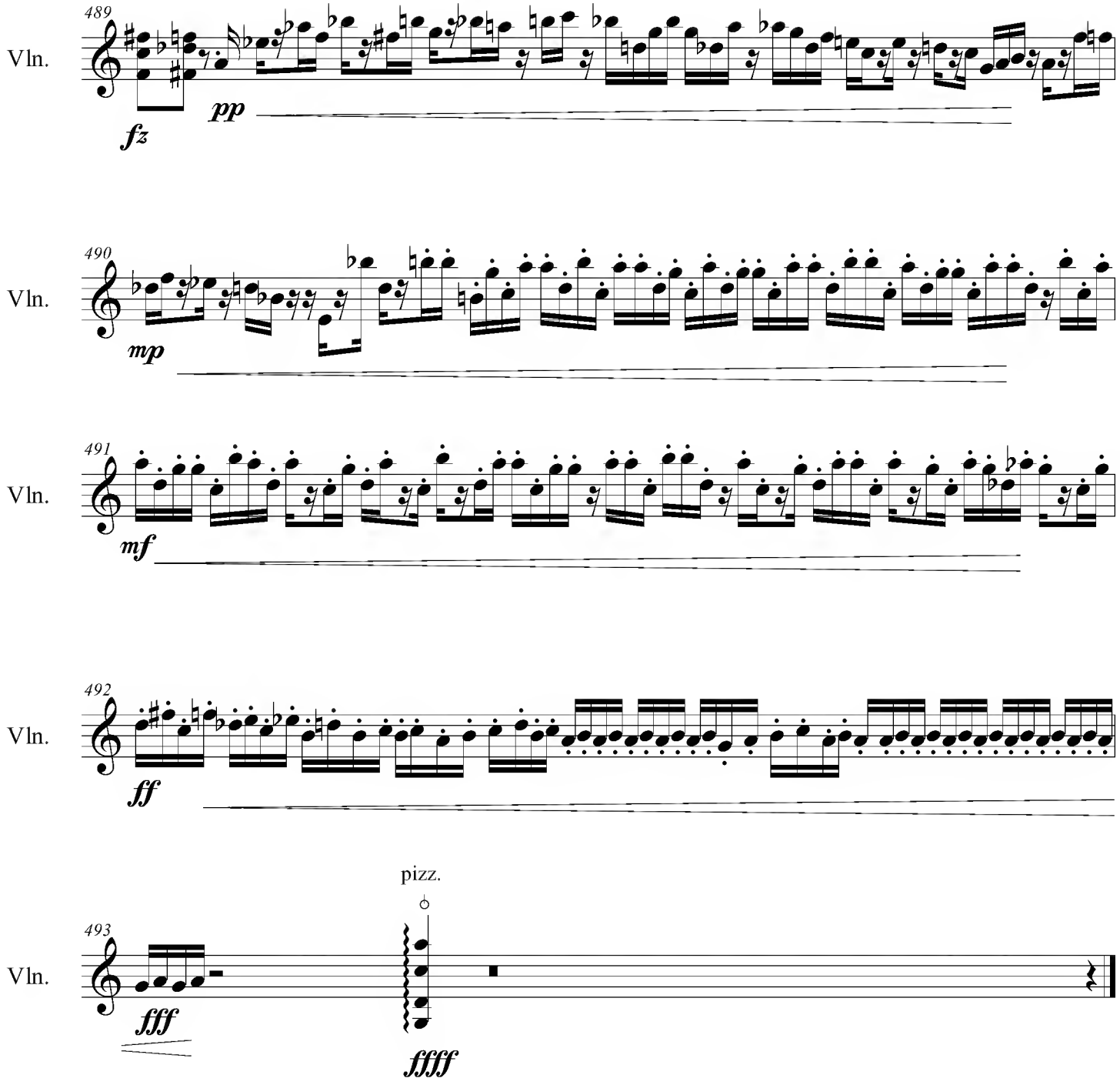

Glissorama
Sul D e A
455
Vln.
ff
fff
f
ff
Glissorama
456
Vln.
fff
mf
f
ff
fff
+42
+45
+48
+26
+39
+39
+61
457
Vln.
ff
fff
f
mf
458
Vln.
fz
mp
sfz
mf
459
Vln.
sf
sf
fz
fz
sffz
460
Vln.
mf
fz
fz
fz


461
Vln.
mf
mp
fff
p
ff
462
Vln.
f
fff
463
Vln.
sfz
ff
sffz
464
Vln.
465
Vln.
fz
mp
fz
p
466
Vln.
mp
ffff


Vln.
467
-19
mp
mf
ff
mf
7:4
mp
Vln.
468
+19
+32
+26
+16
+19
+32
f
fff
mf
Vln.
469
+48
+32
+29
mf
ff
mp
Vln.
470
spiccato volante
f
fff
Vln.
471
ff
fz
mp
Vln.
472
+29
mf
p
fz


473
Vln.
p
474
Vln.
mp
475
Vln.
fz
fz
mp
sfz
sffz
fz
sf
19:13
11:9
9:8
476
Vln.
fffff
477
Vln.
+35.5
+39
ff
+29
+32
mf
+39
+26
fff
p
479
Vln.
+42
+35.5
fff
+61
+32
+26
+42
f
+77
mf
+52
+48
+39
fffff
+19
+39
1/1


481
+39
+42
+32
+29
+32
1/1
+35.5
-39
+16
Vln.
p
ffff
mf
483
+26
+29
+42
+35.5
+61
+61
+32
+48
Vln.
fff
ff
f
pp
fp
ffff
485
Vln.
mp
486
Vln.
mf
487
+35.5
+32
Vln.
fff
488
Vln.
sffzsfzsfz


489
Vln.
fz
pp
490
Vln.
mp
491
Vln.
mf
492
Vln.
ff
pizz.
493
Vln.
fff
ffff

Part III; "Fibonacci"

String Quartet IV

Irrational

Peter Thoegersen

no cents values necessary; please refer to legend

Moderato ♩ = 97.1

Viola
16 > 10 edo

Sul Pont. *Sul Tasto* *Sul Pont.* *Sul Tasto*

3

5:2

ff *mp* *f* *mf*

ord. *marcato* *Sul Tasto* *Sul G*

4

Vla.

fff *mp*

13:8

Sul Pont. *Sul D* *Gliss-Portamento* *Sul Tasto*

6

Vla.

mf *ff* *p*

21:16

ord.

7

Vla.

f *ff*

34:16

55𝅘𝅥𝅯:48𝅘𝅥𝅯

8

Vla.

mf *f* *fz* *mp* *ff* *mp* *ffp* *mf* *fff*

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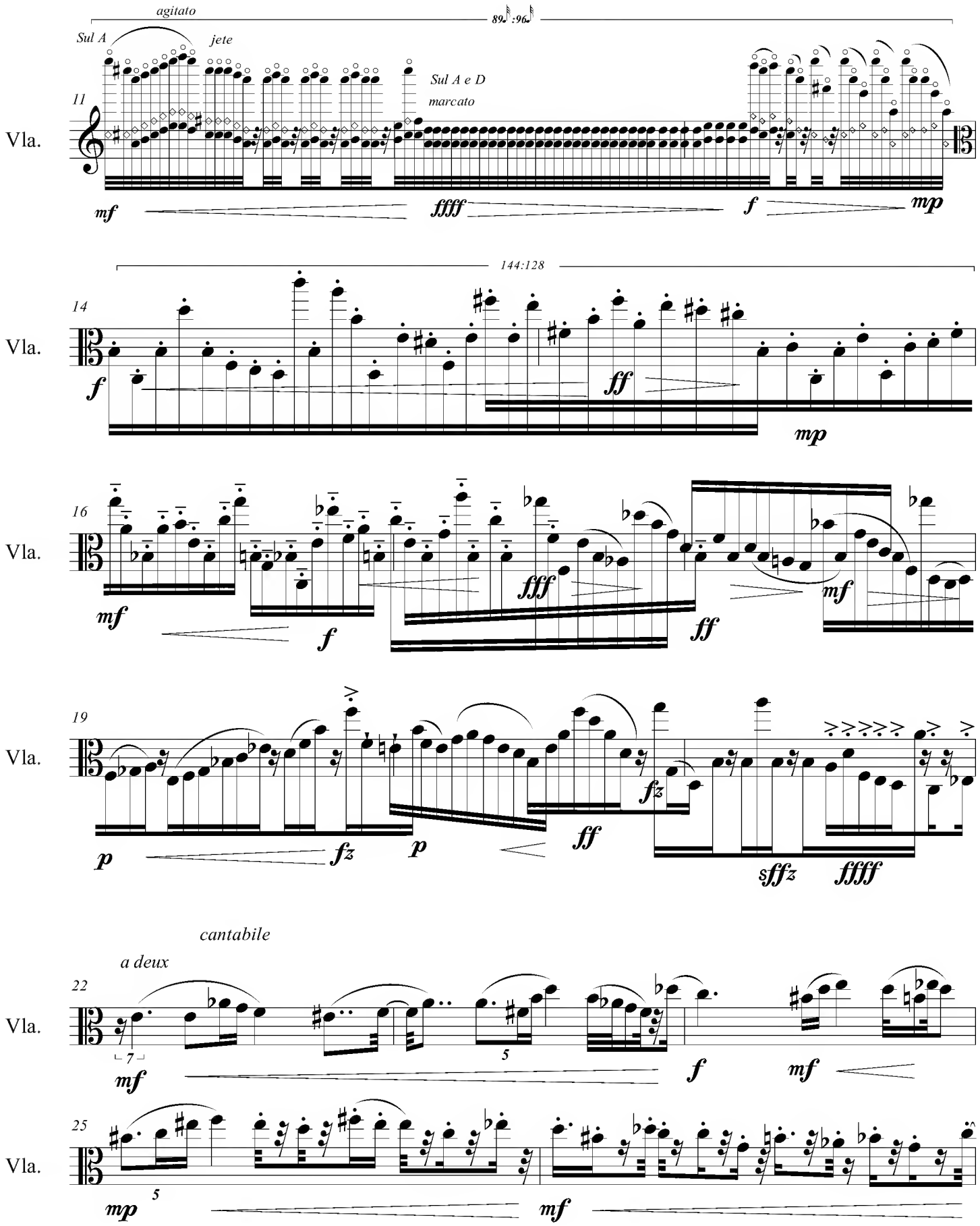
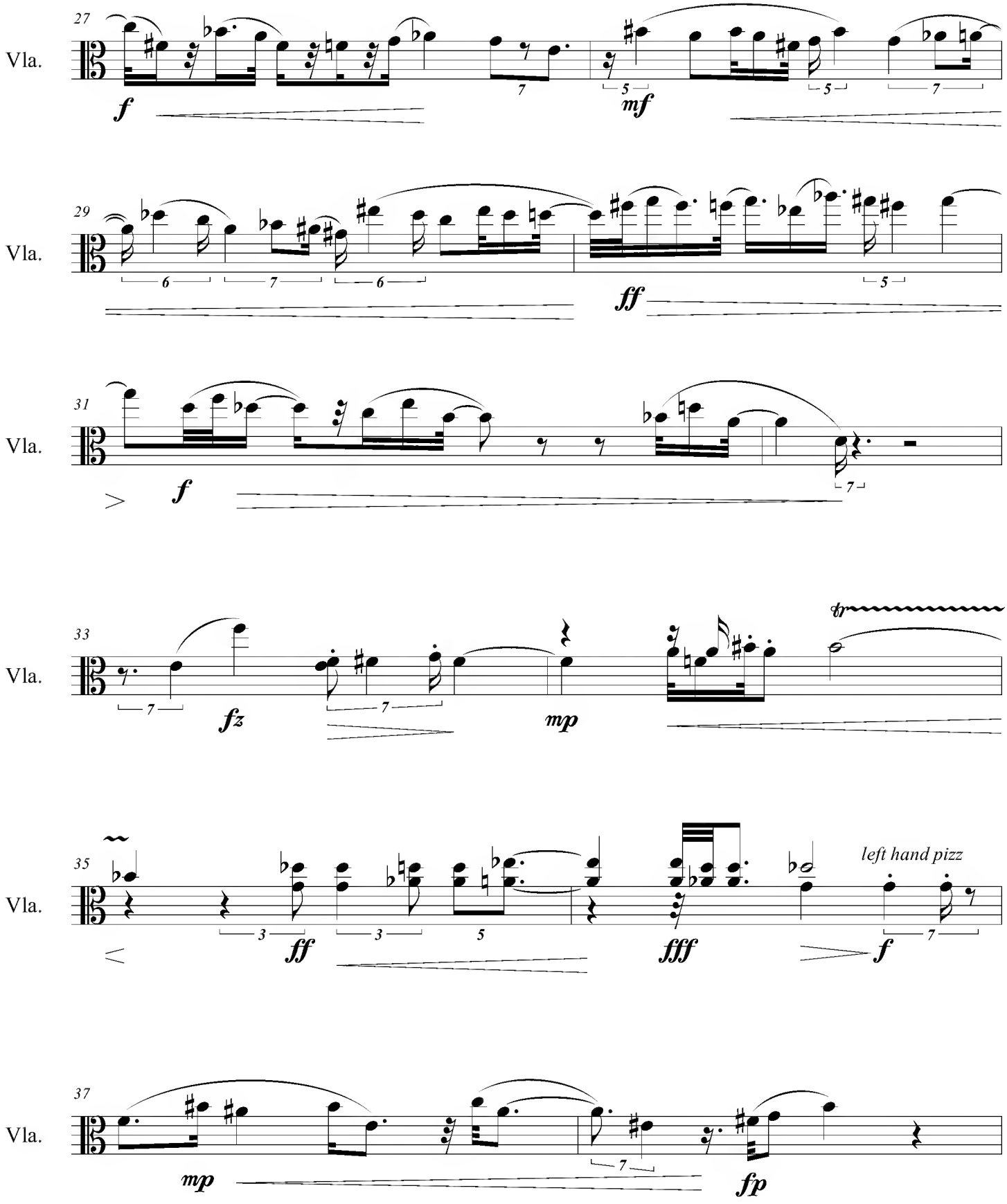
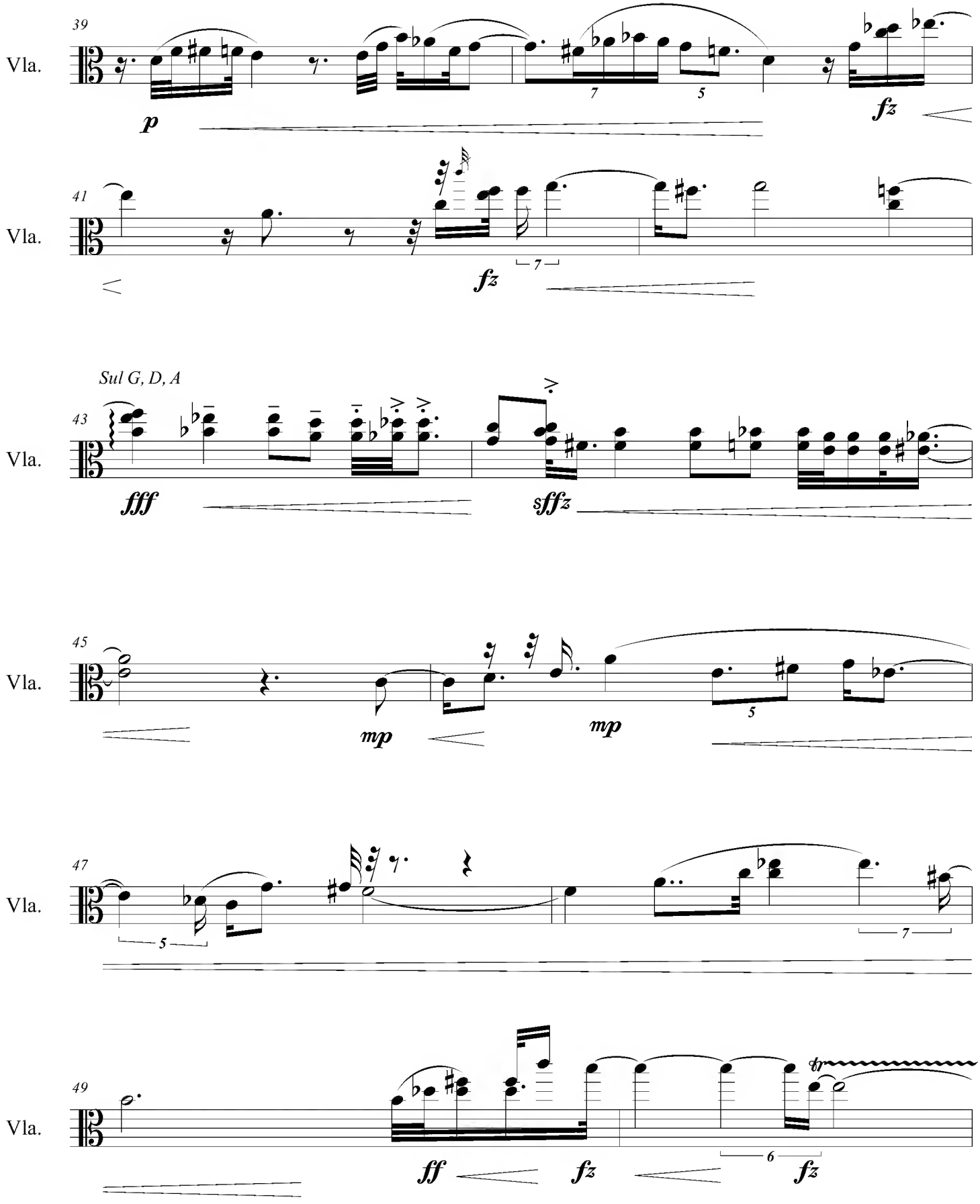
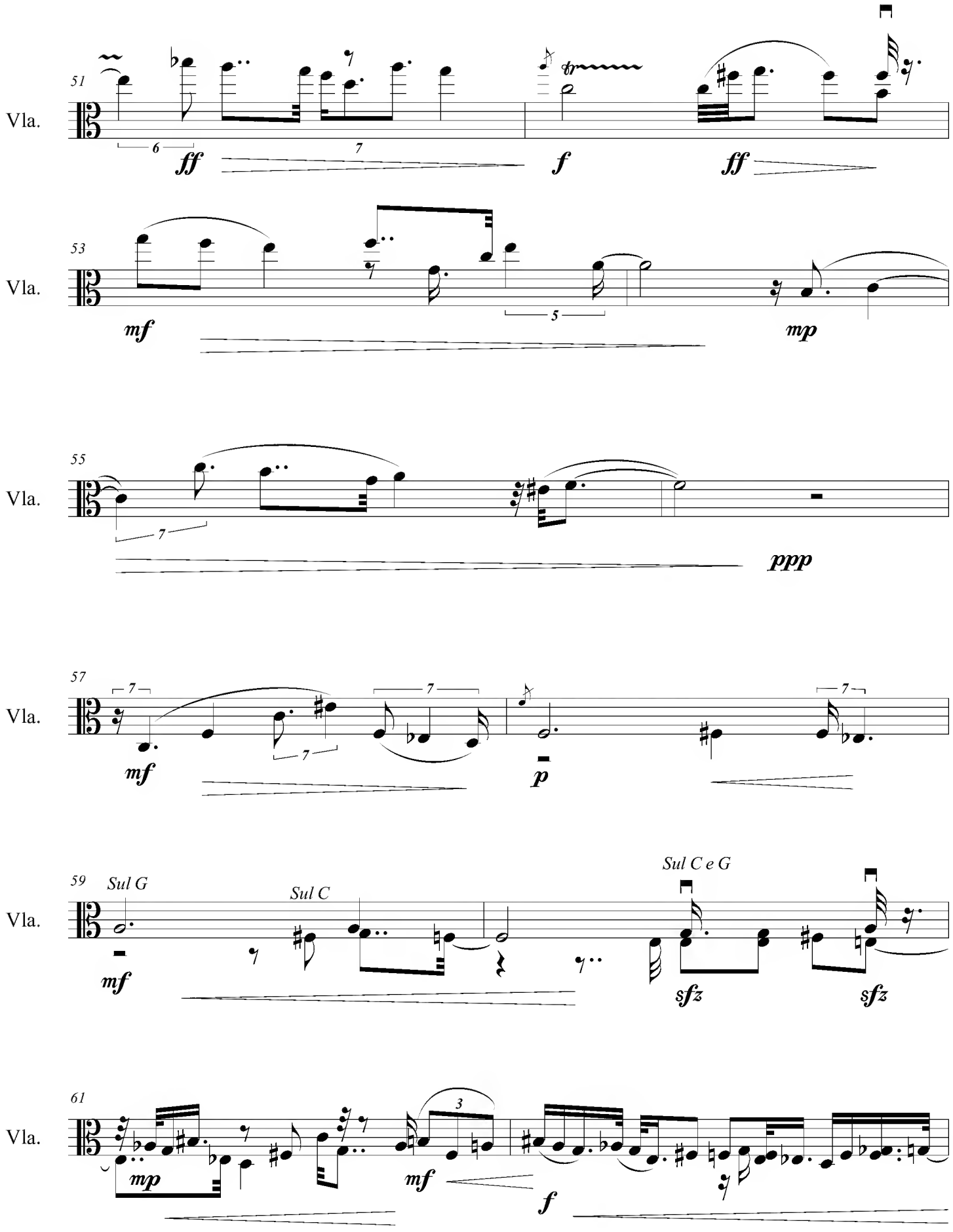
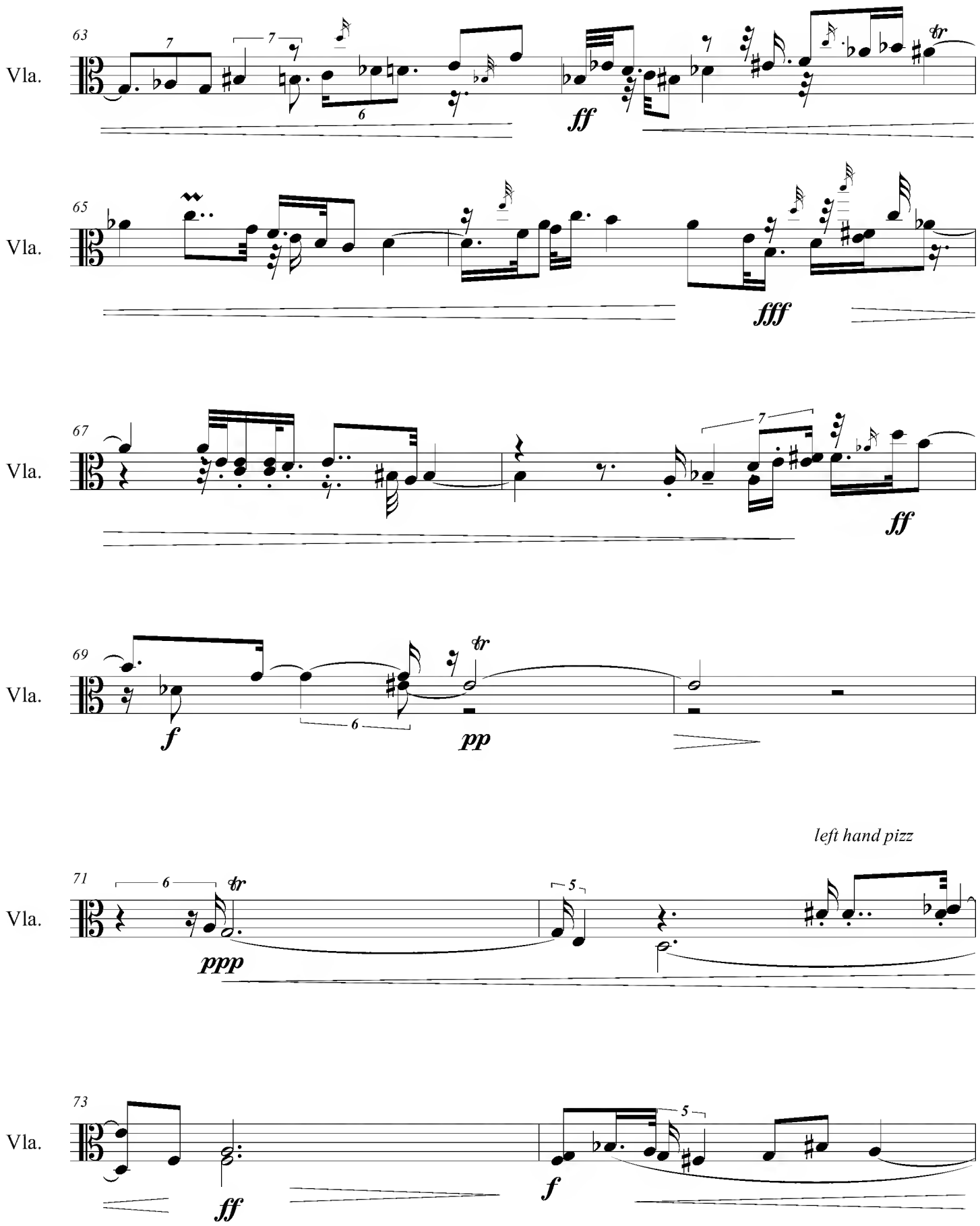
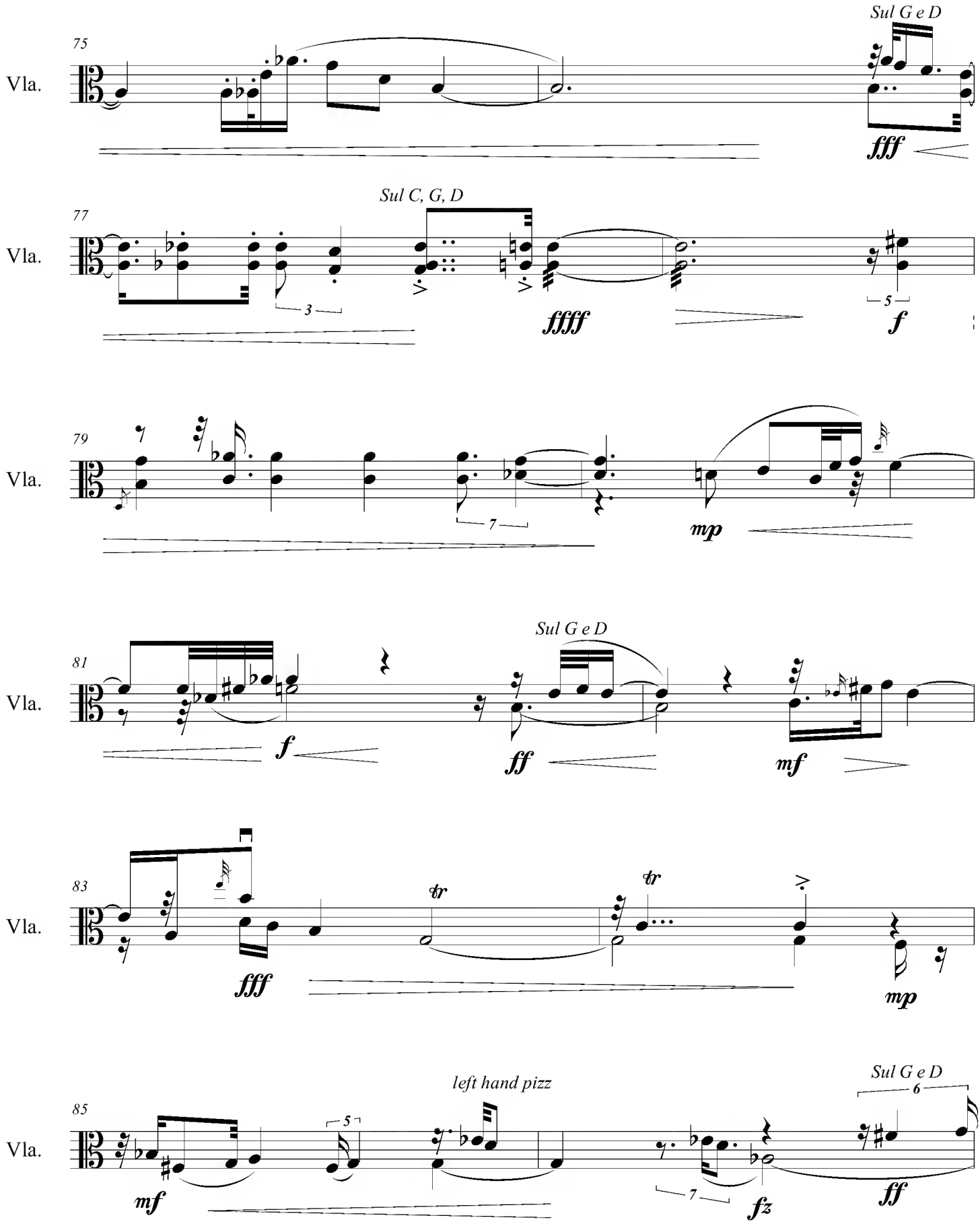

agitato
89.:96.
Sul A
jete
11
Vla.
Sul A e D
marcato
mf
ffff
f
mp
144:128
14
Vla.
f
ff
mp
16
Vla.
mf
f
fff
ff
mf
19
Vla.
p
fz
p
ff
fz
sffz
ffff
cantabile
a deux
22
Vla.
7
mf
5
f
mf
25
Vla.
5
mp
mf

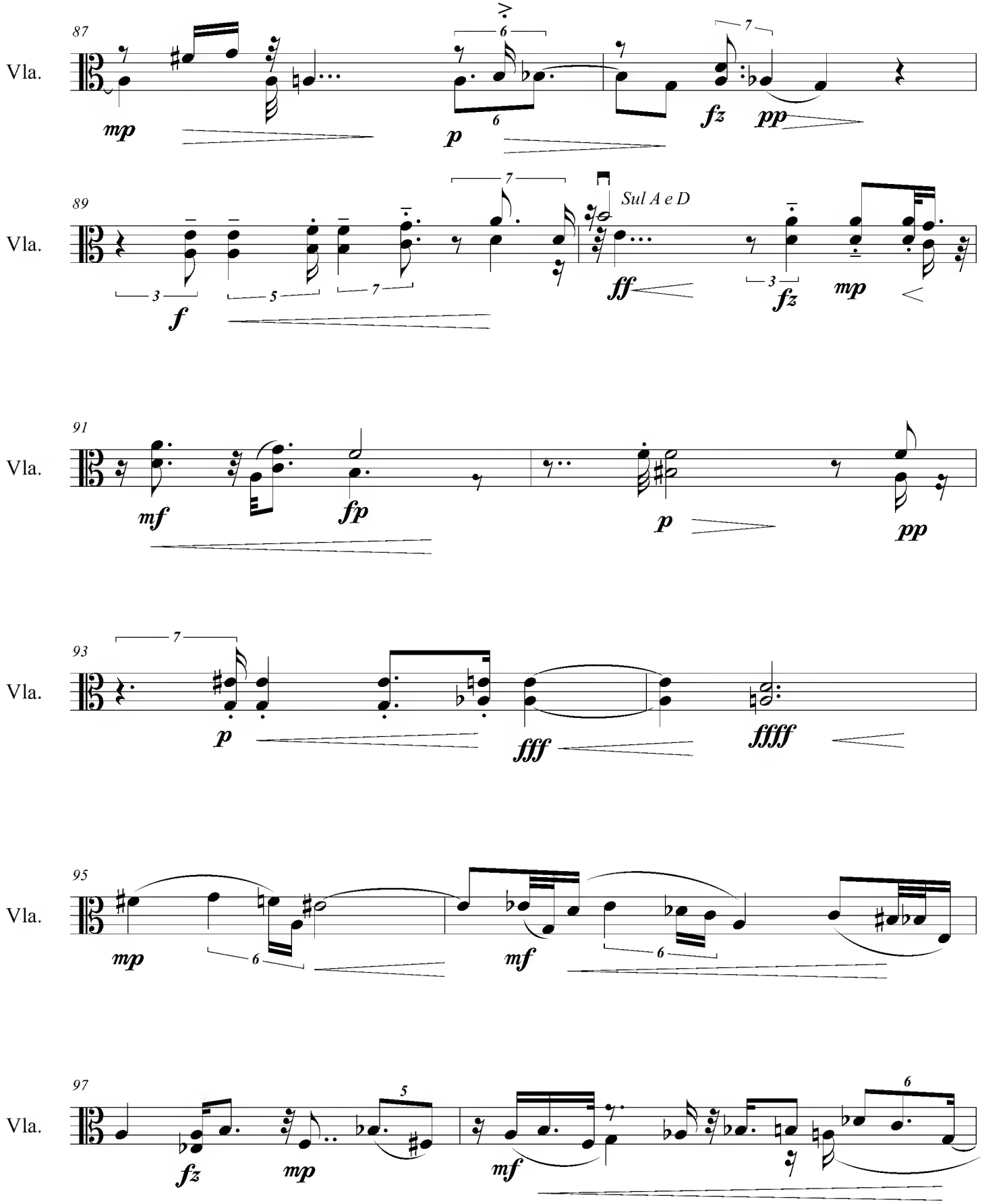

27
Vla.
f
mf
29
Vla.
ff
31
Vla.
f
33
Vla.
fz
mp
35
Vla.
ff
fff
left hand pizz
f
37
Vla.
mp
fp

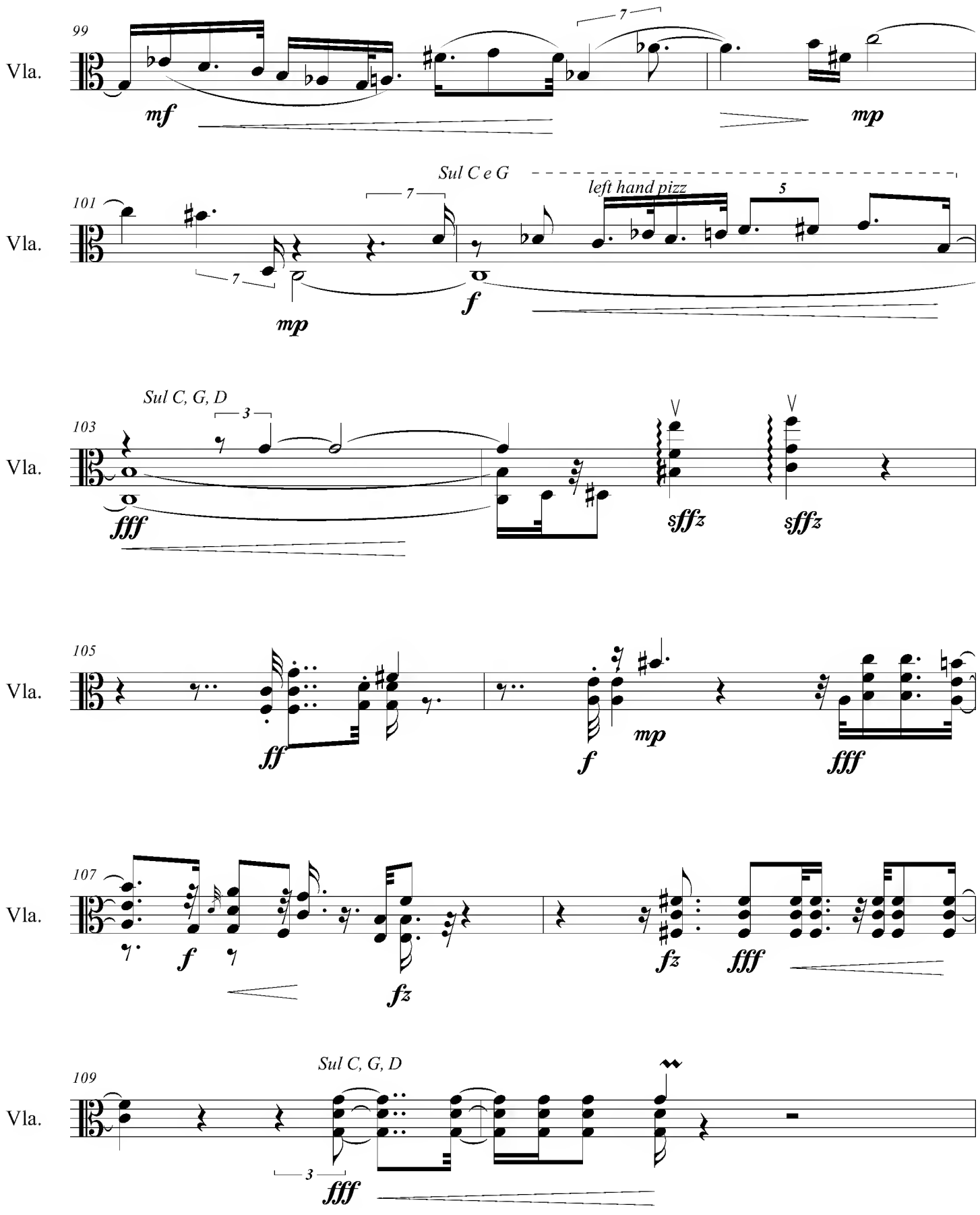

39
Vla.
p
7
5
fz
41
Vla.
fz
7
Sul G, D, A
43
Vla.
fff
sffz
45
Vla.
mp
mp
5
47
Vla.
5
7
49
Vla.
ff
fz
6
fz
tr

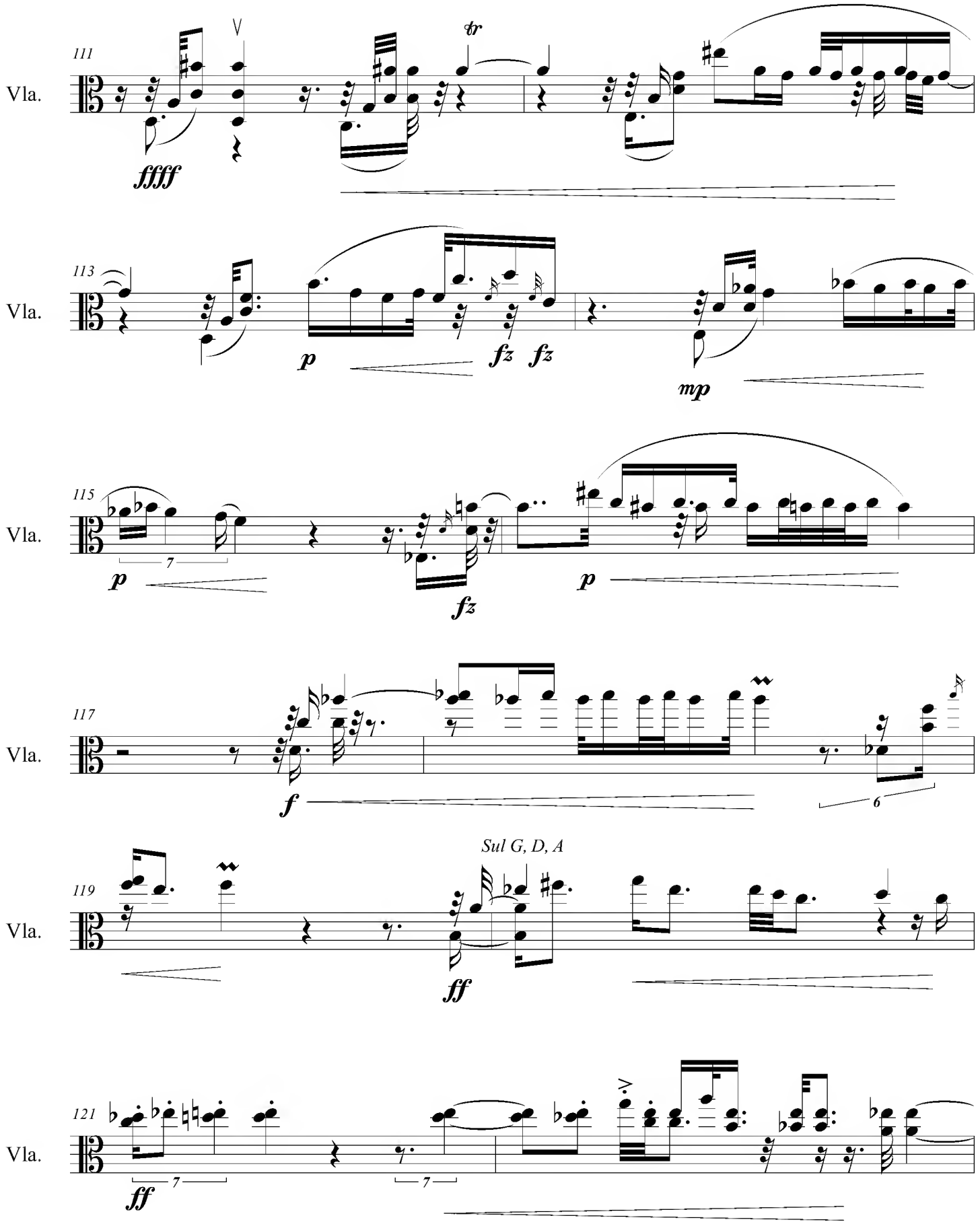

51
Vla.
6
7
ff
f
ff
53
Vla.
mf
5
mp
55
Vla.
7
ppp
57
Vla.
7
7
7
7
mf
p
59
Vla.
Sul G
Sul C
Sul C e G
mf
sfz
sfz
61
Vla.
3
mp
mf
f

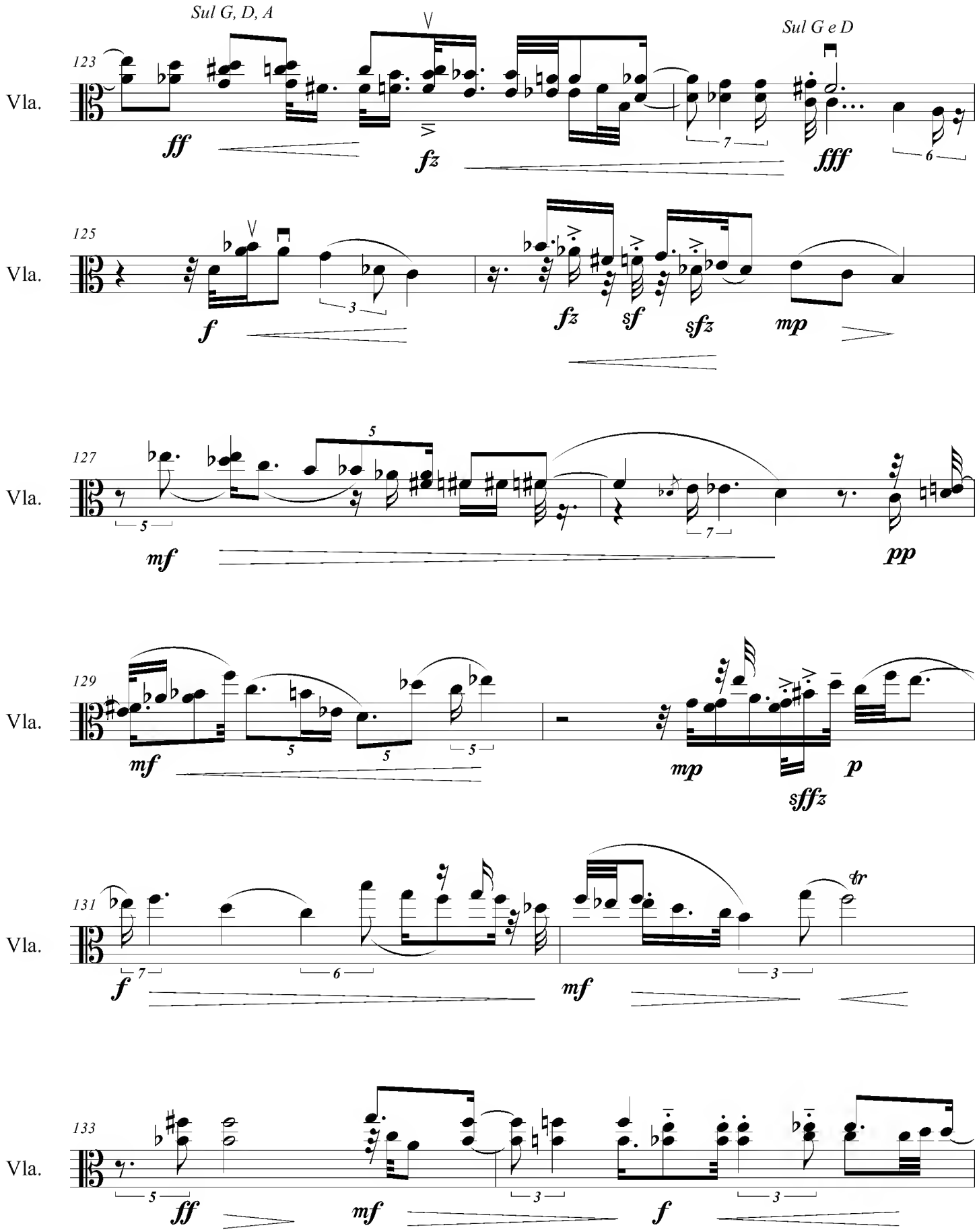

63
Vla.
ff
65
Vla.
fff
67
Vla.
ff
69
Vla.
f
pp
left hand pizz
71
Vla.
ppp
73
Vla.
ff
f

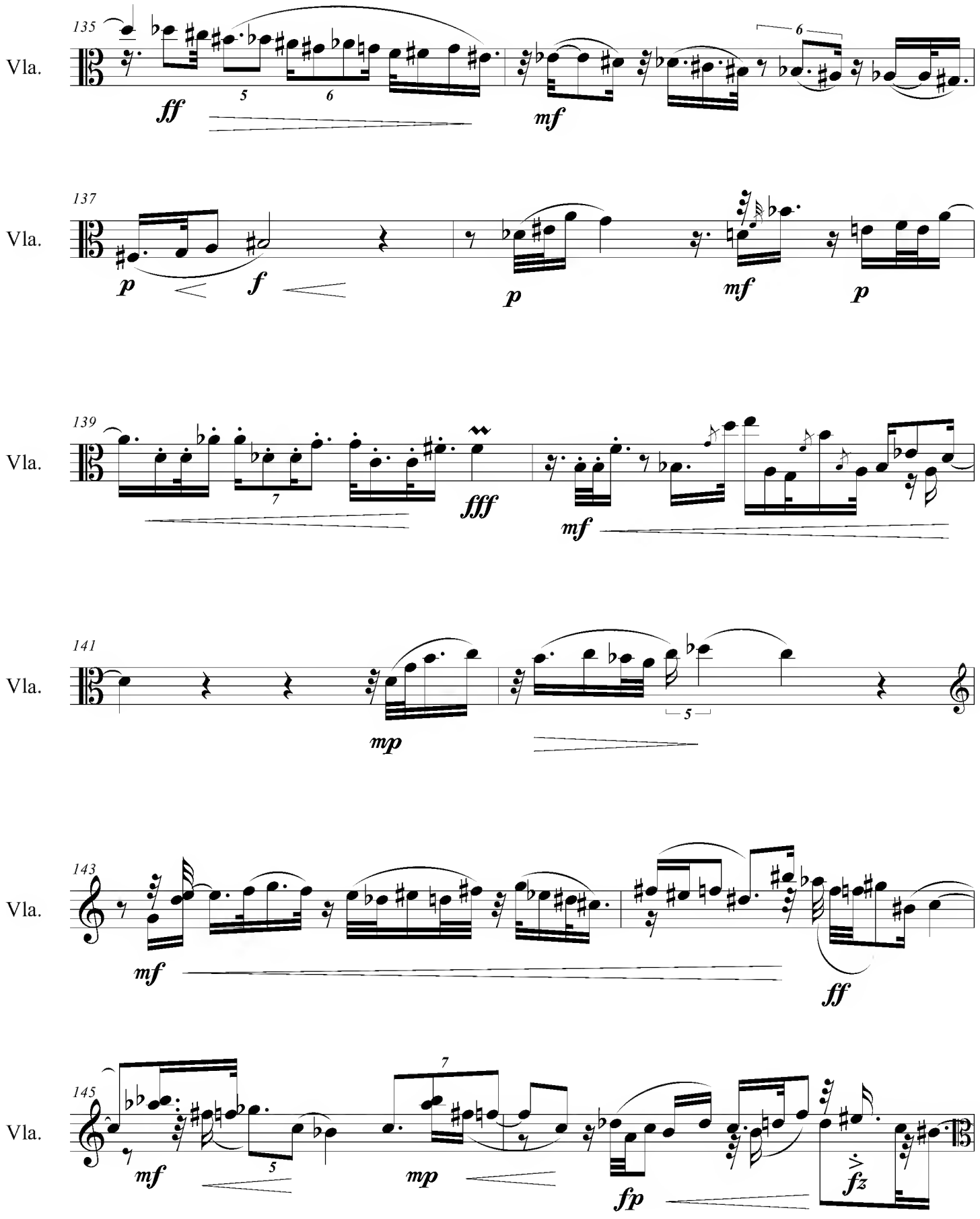

75
Vla.
Sul G e D
fff
77
Vla.
Sul C, G, D
3
ffff
5
f
79
Vla.
7
mp
81
Vla.
f
Sul G e D
ff
mf
83
Vla.
fff
tr
tr
mp
85
Vla.
mf
5
left hand pizz
7
fz
Sul G e D
6
ff

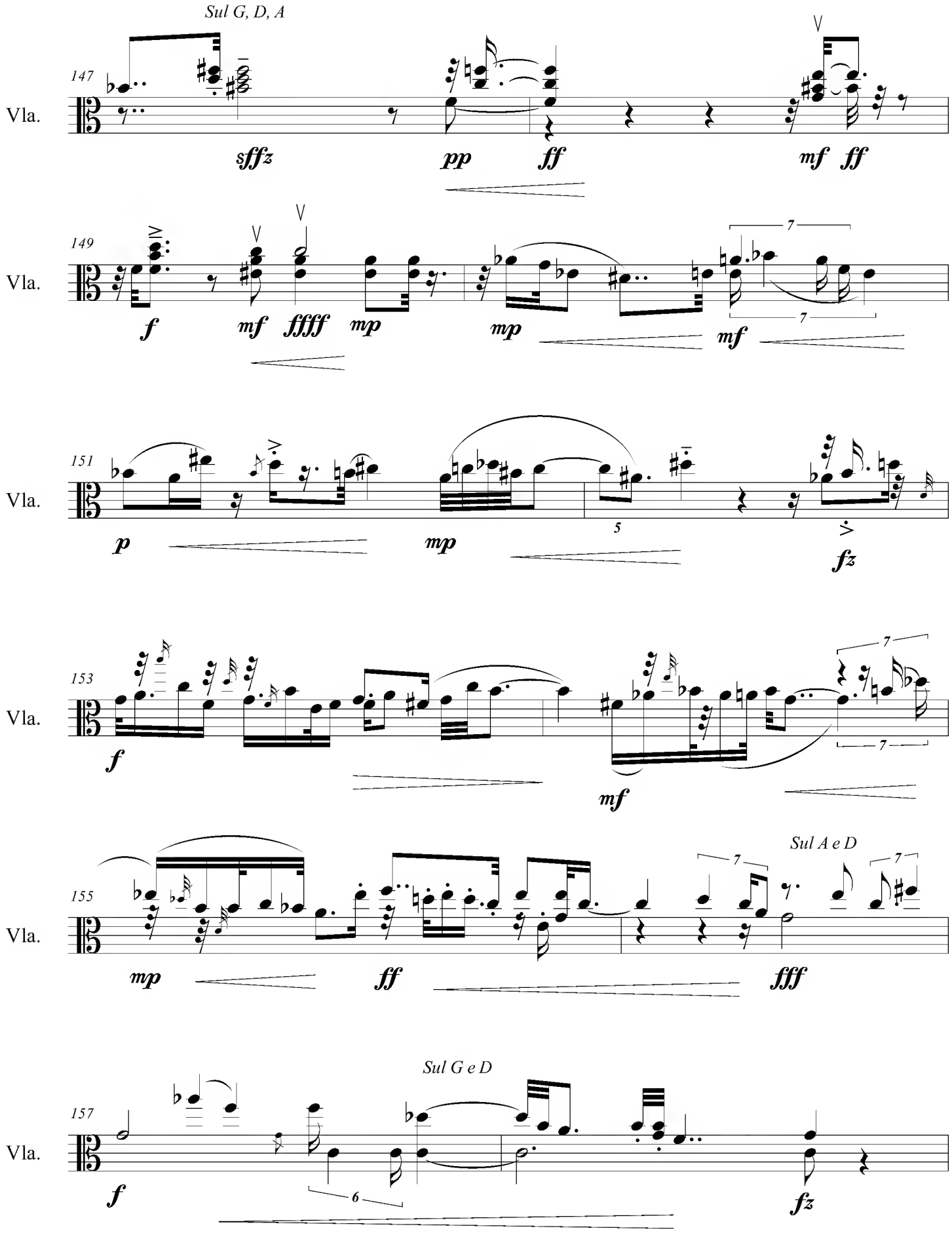

87
Vla.
mp
p
fz
pp
89
Vla.
Sul A e D
f
ff
fz
mp
91
Vla.
mf
fp
p
pp
93
Vla.
p
fff
ffff
95
Vla.
mp
mf
97
Vla.
fz
mp
mf

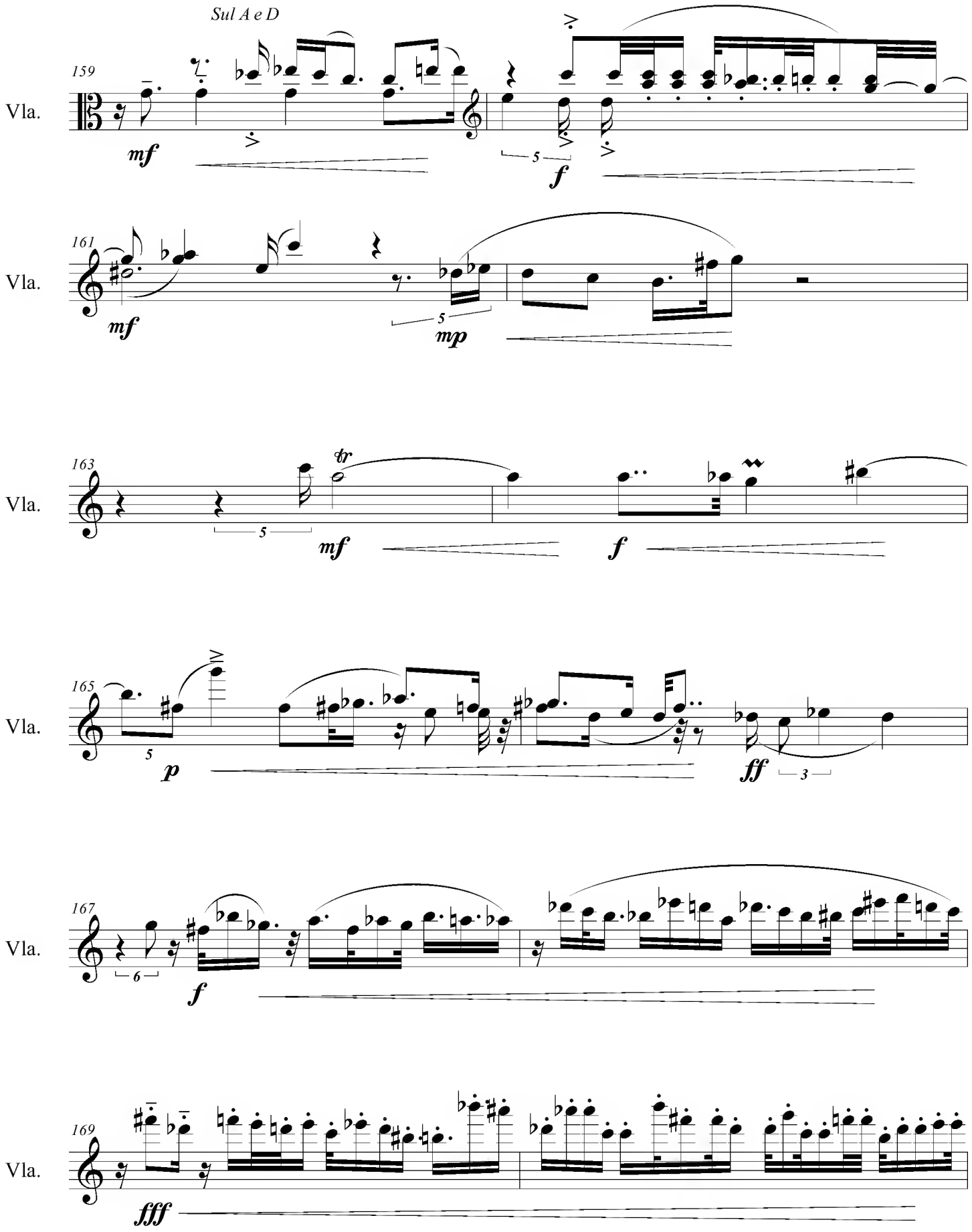

99
Vla.
mf
7
mp
101
Vla.
Sul C e G
left hand pizz
5
7
7
mp
f
103
Vla.
Sul C, G, D
3
fff
sffz
sffz
105
Vla.
ff
f
mp
fff
107
Vla.
f
fz
fz
fff
109
Vla.
Sul C, G, D
3
fff

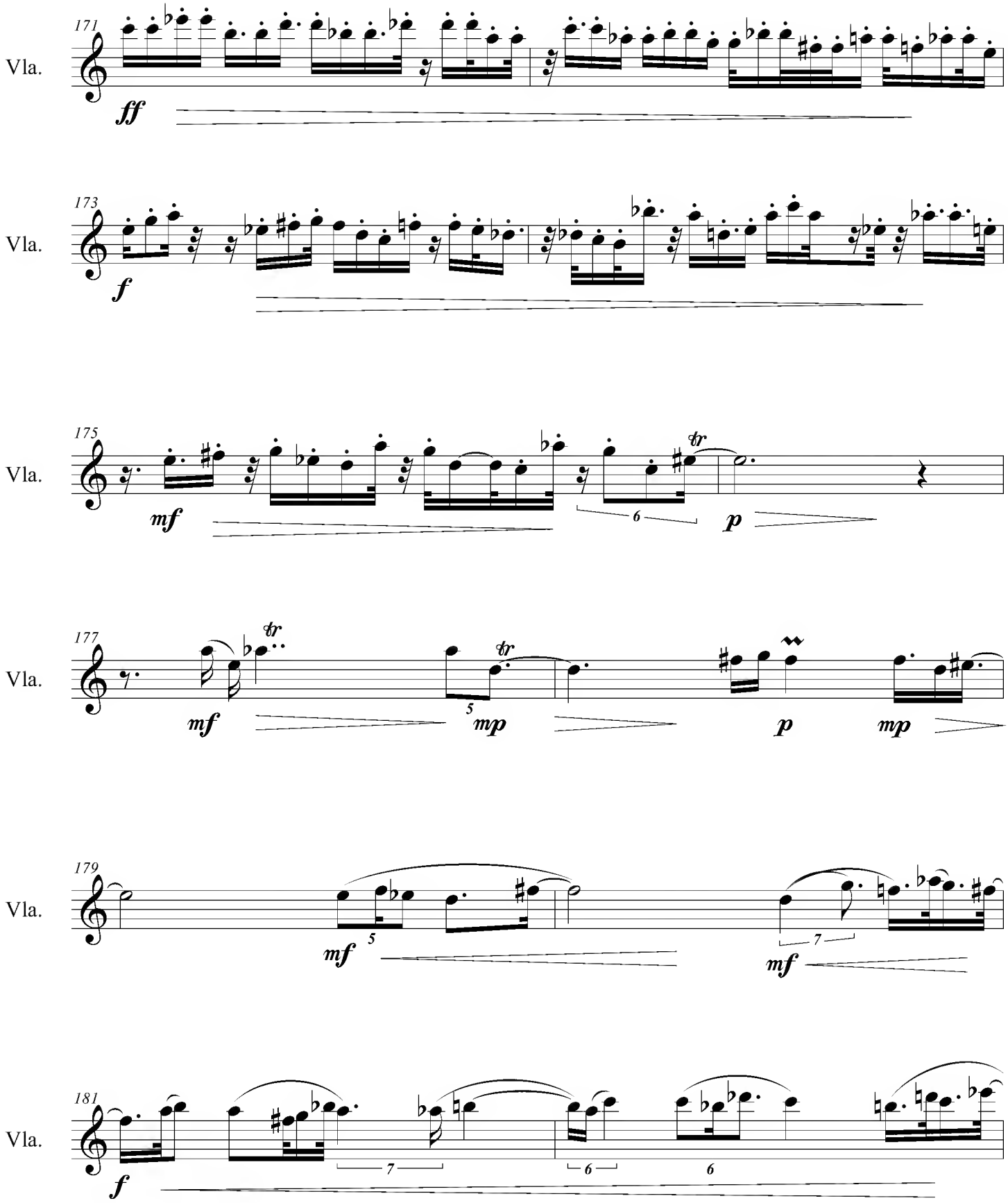

111
Vla.
ffff
tr
113
Vla.
p
fz
fz
mp
115
Vla.
p
7
fz
p
117
Vla.
f
6
Sul G, D, A
119
Vla.
ff
121
Vla.
ff
7
7

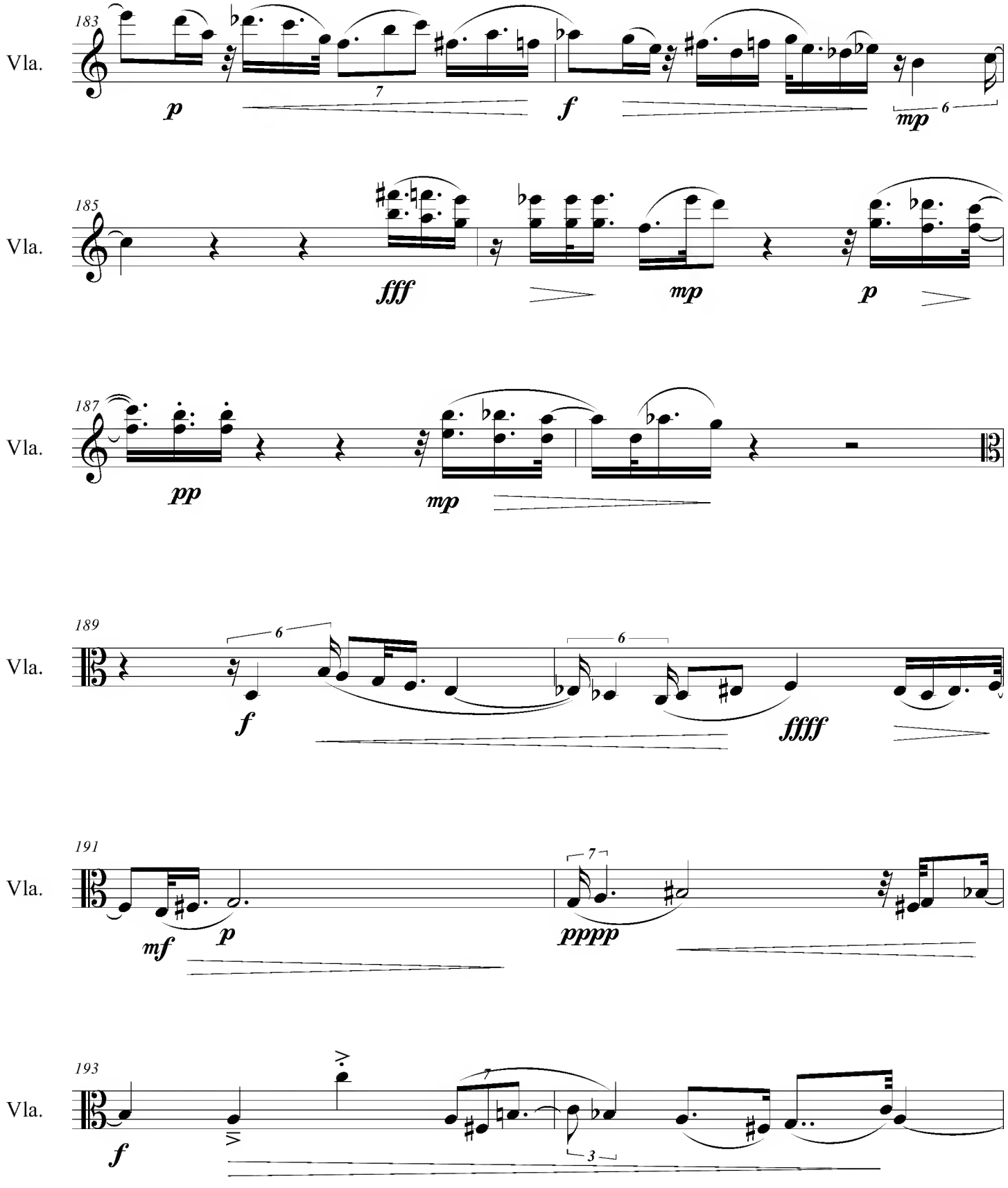

Sul G, D, A
Sul G e D
123
Vla.
ff
fz
fff
125
Vla.
f
fz
sf
sfz
mp
127
Vla.
mf
pp
129
Vla.
mf
mp
sffz
p
131
Vla.
f
mf
tr
133
Vla.
ff
mf
f

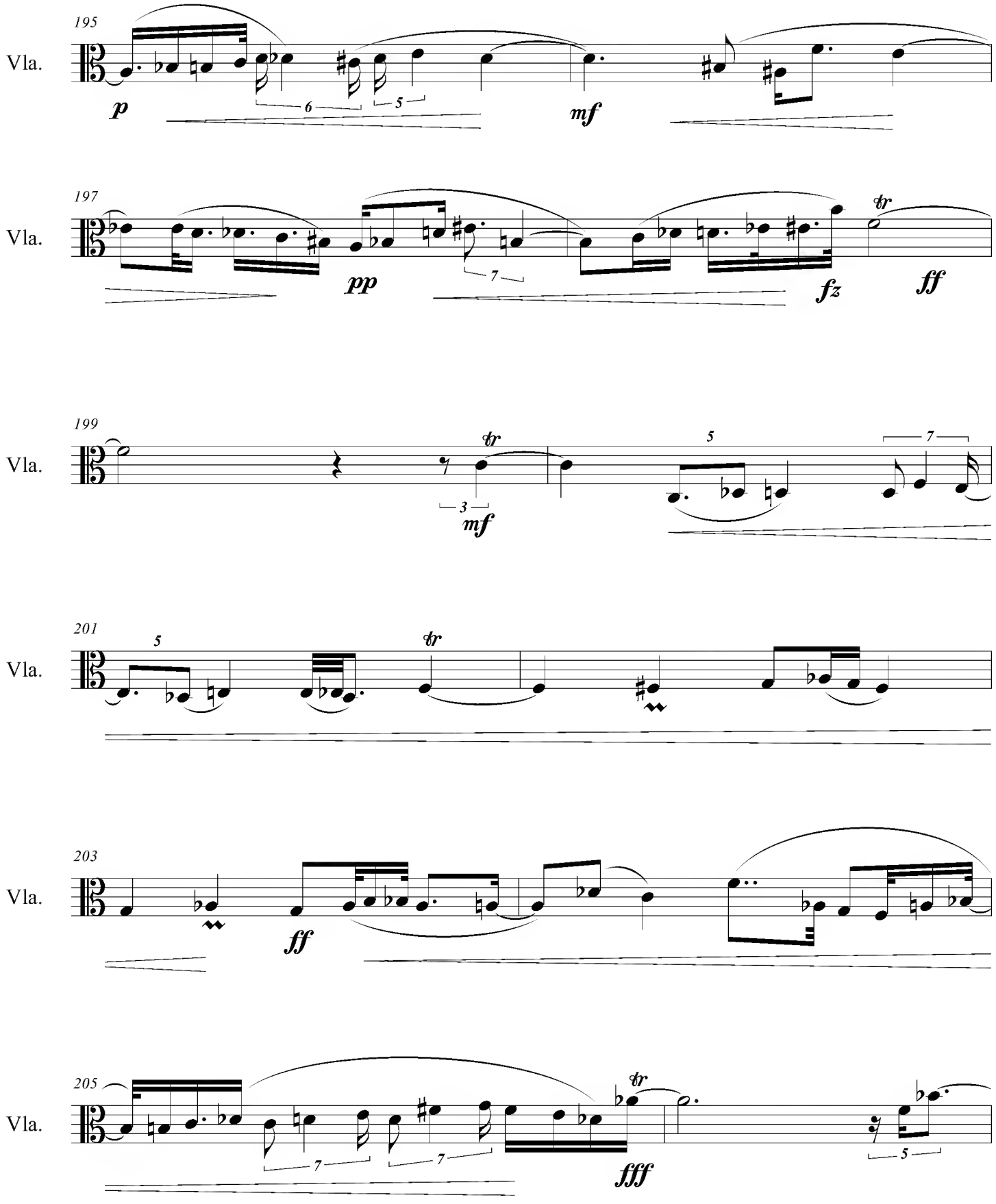

135
Vla.
ff
mf
137
Vla.
p
f
p
mf
p
139
Vla.
fff
mf
141
Vla.
mp
143
Vla.
mf
ff
145
Vla.
mf
mp
fp
fz

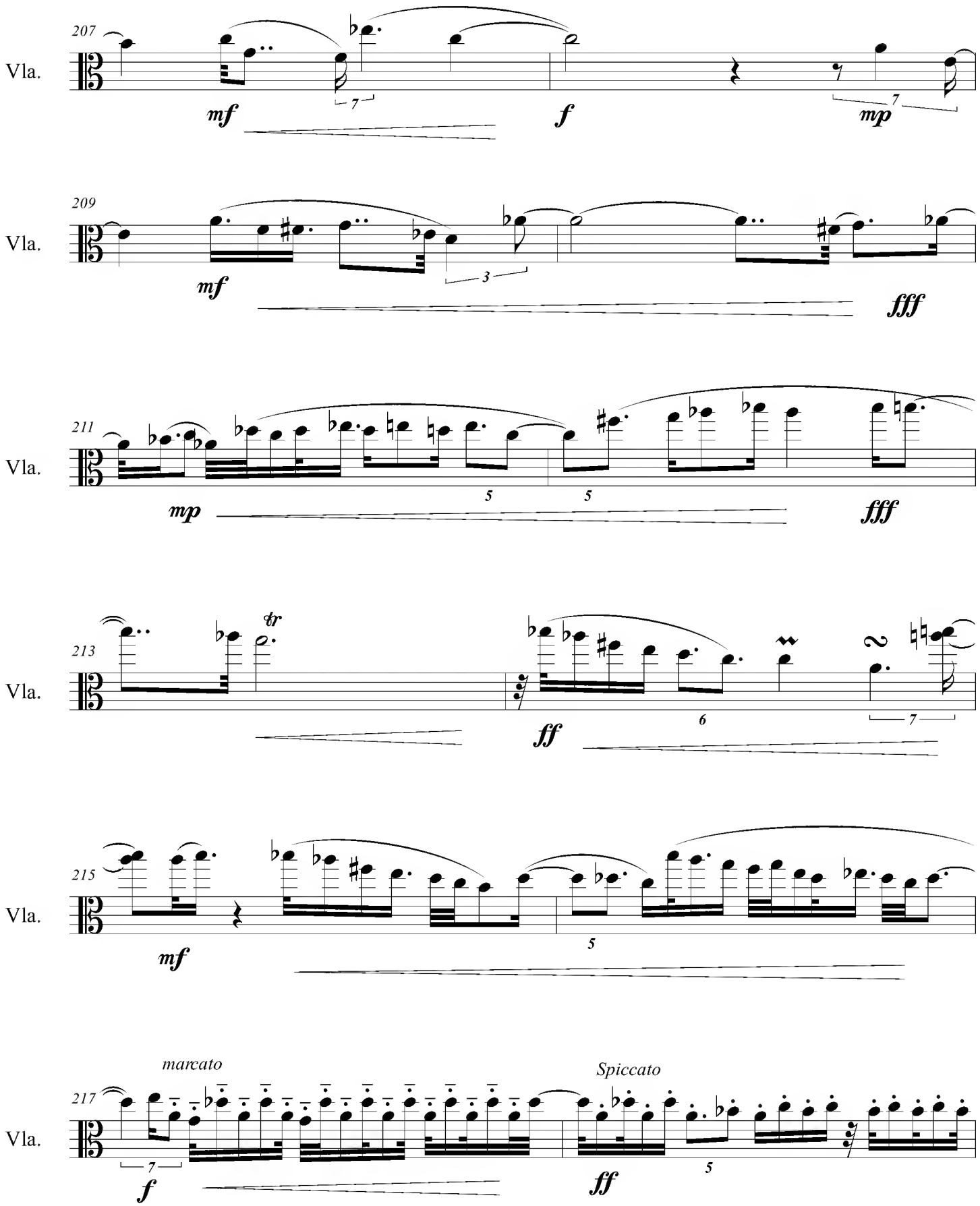

Sul G, D, A
147
Vla.
sffz
pp
ff
mf
ff
149
Vla.
f
mf
ffff
mp
mp
7
7
mf
151
Vla.
p
mp
5
fz
153
Vla.
f
mf
7
7
Sul A e D
155
Vla.
mp
ff
7
7
fff
Sul G e D
157
Vla.
f
6
fz

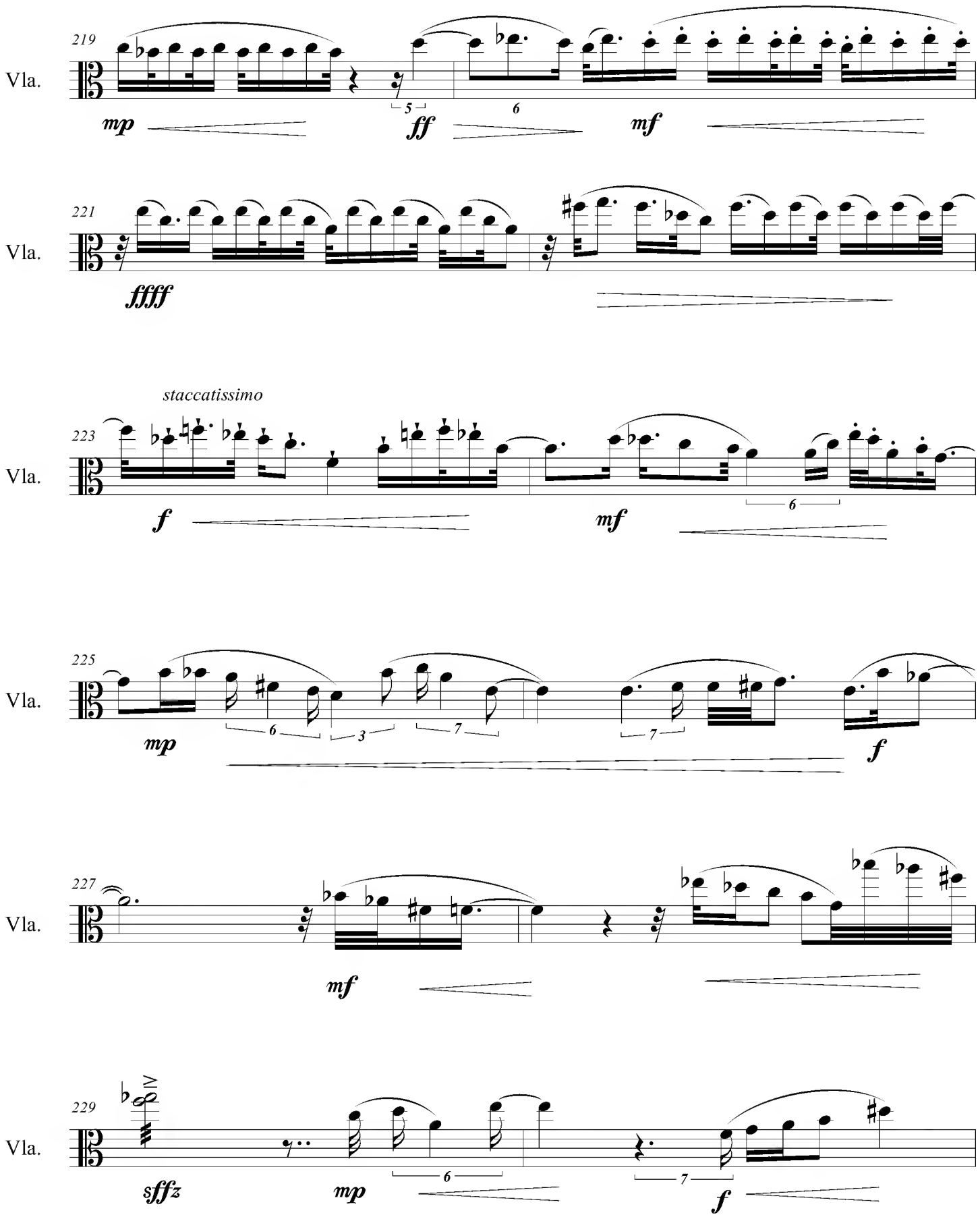

Sul A e D
159
Vla.
mf
5
f
161
Vla.
mf
5
mp
163
Vla.
tr
5
mf
f
165
Vla.
5
p
ff
3
167
Vla.
6
f
169
Vla.
fff

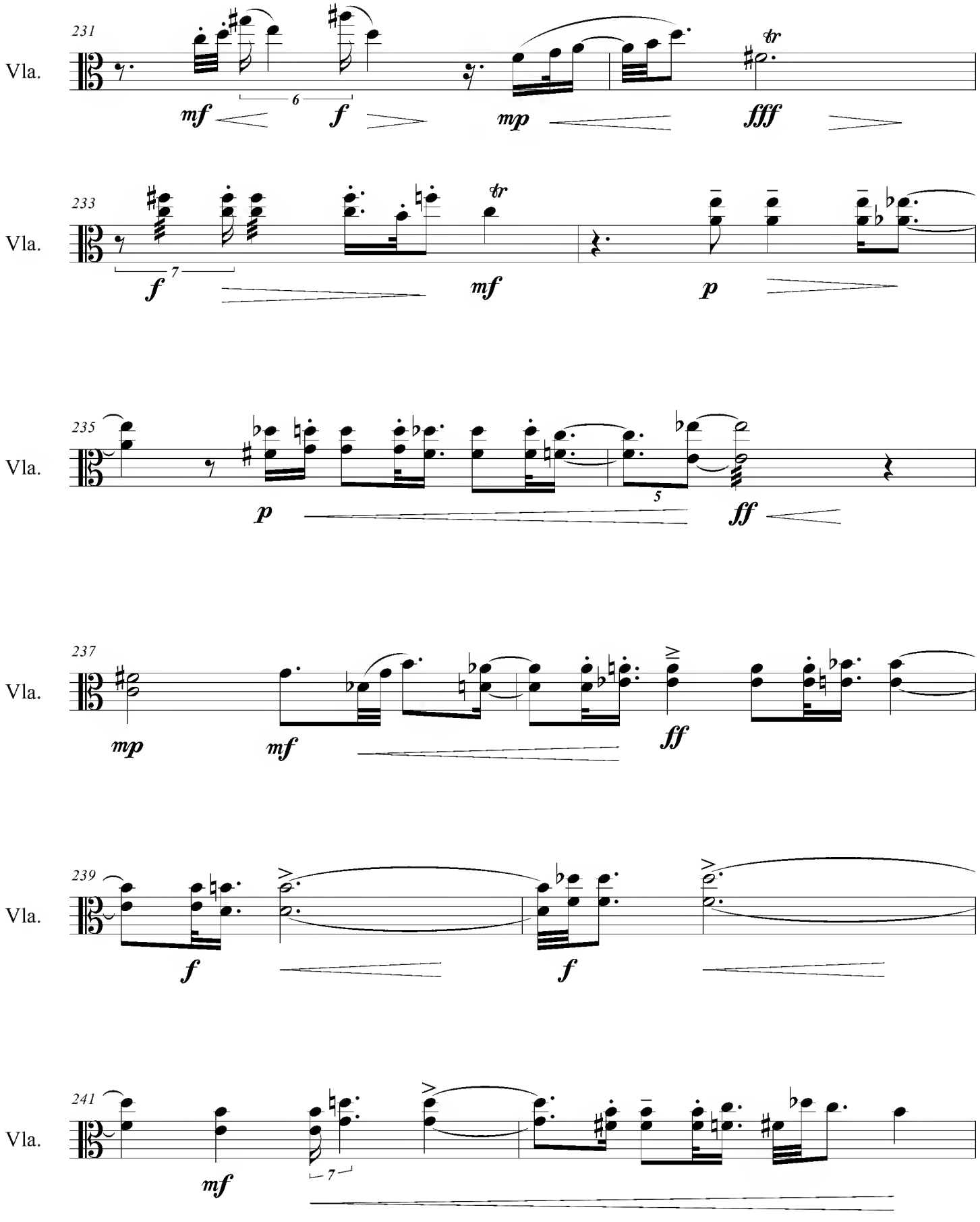

171
Vla.
ff
173
Vla.
f
175
Vla.
mf
6
p
177
Vla.
mf
5
mp
p
mp
179
Vla.
mf
5
7
mf
181
Vla.
f
7
6
6

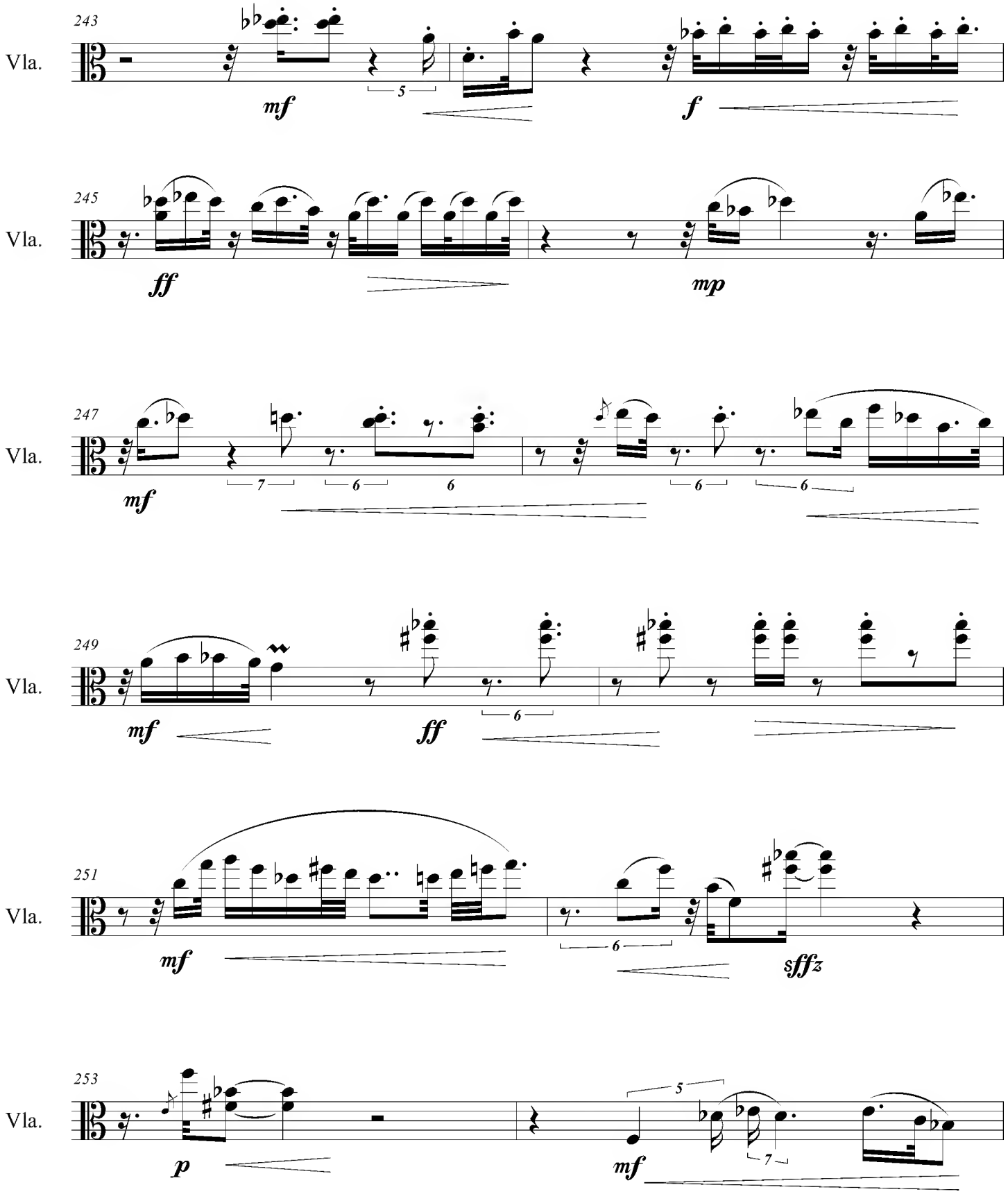

183
Vla.
p
7
f
mp
6
185
Vla.
fff
mp
p
187
Vla.
pp
mp
189
Vla.
6
f
6
ffff
191
Vla.
mf
p
7
pppp
193
Vla.
f
7
3

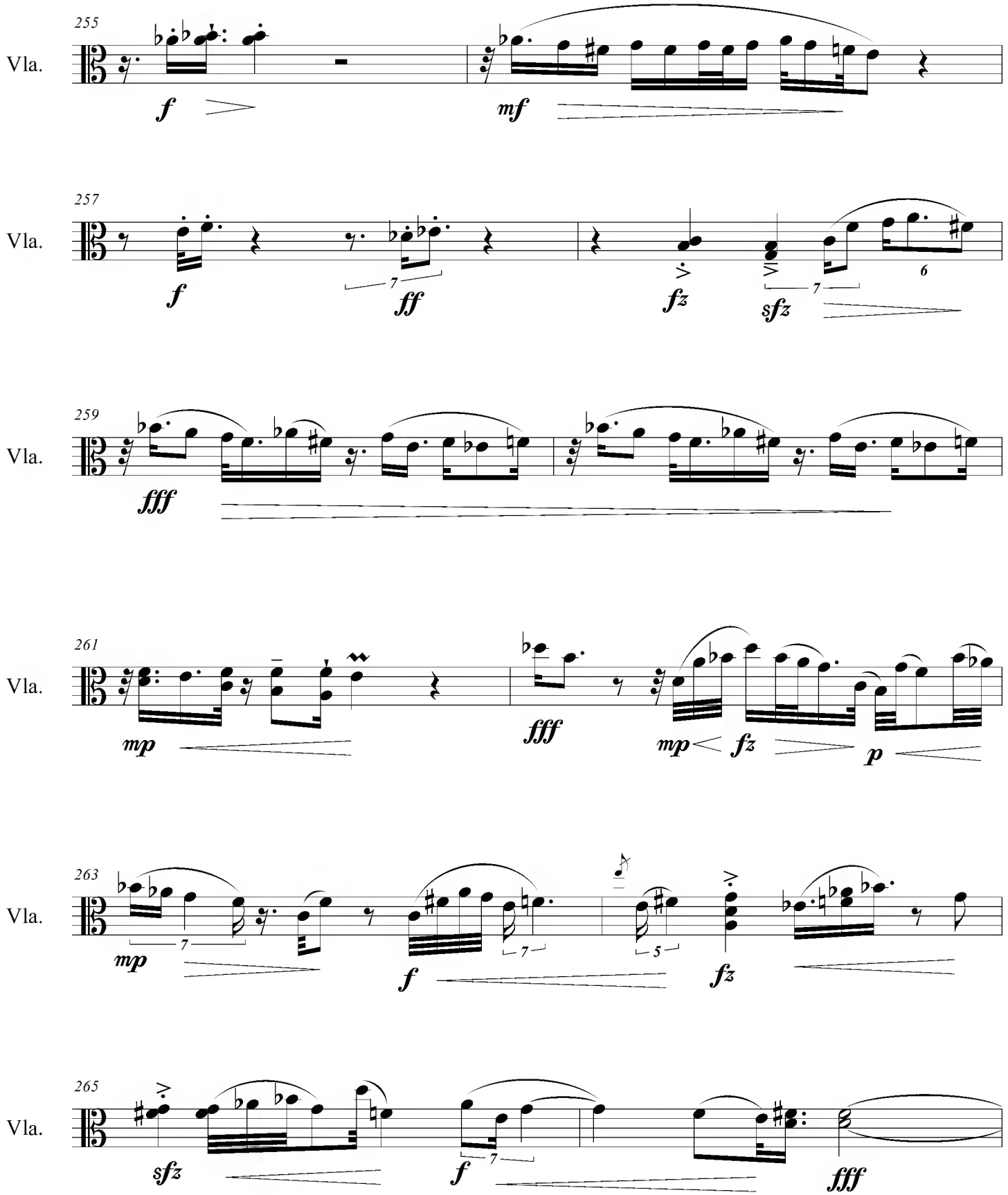

195
Vla.
p
6
5
mf
197
Vla.
pp
7
fz
tr
ff
199
Vla.
tr
3
mf
5
7
201
Vla.
5
tr
203
Vla.
ff
205
Vla.
7
7
tr
fff
5

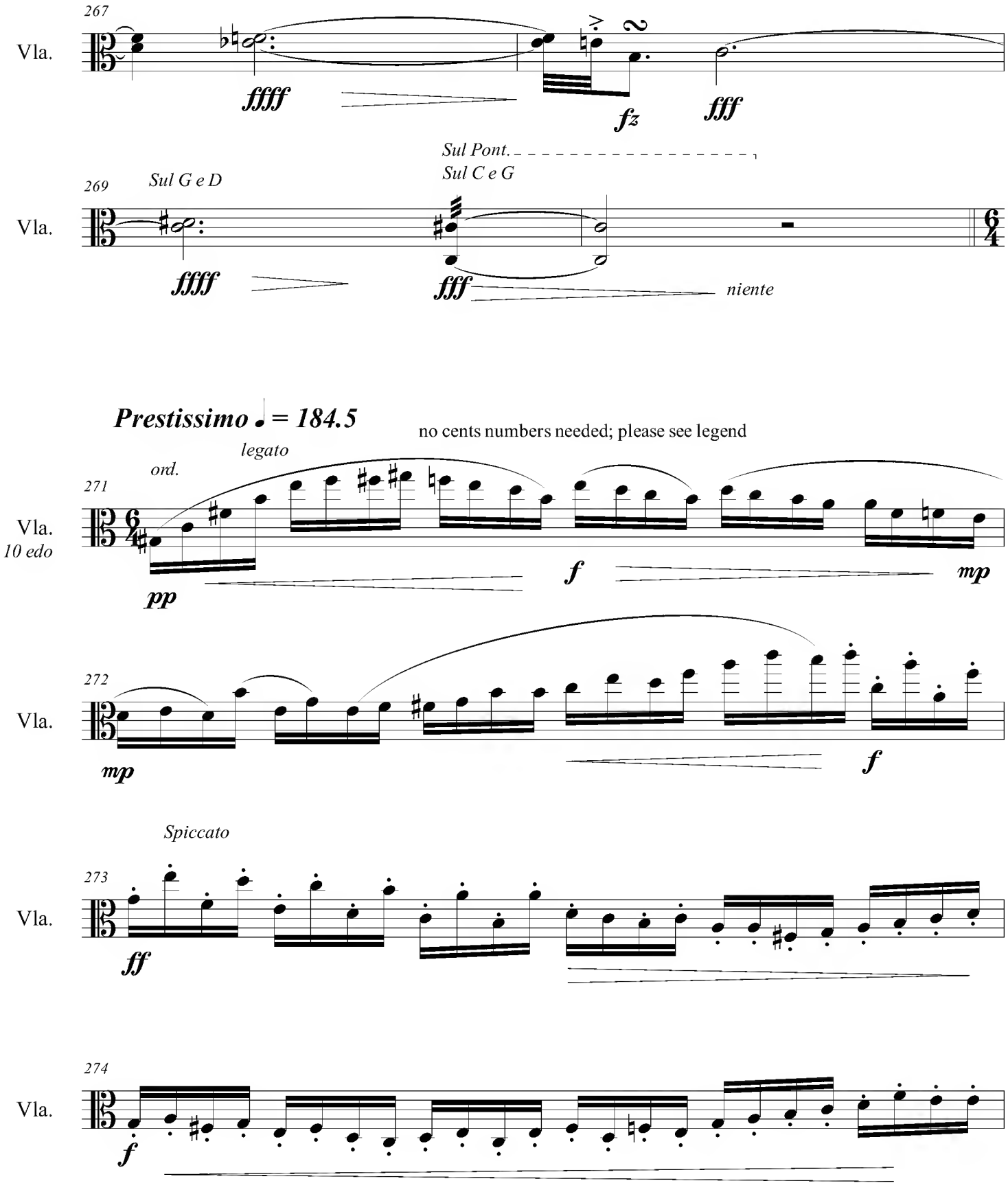

207
Vla.
mf
7
f
7
mp
209
Vla.
mf
3
fff
211
Vla.
mp
5
5
fff
213
Vla.
tr
ff
6
7
215
Vla.
mf
5
marcato
217
Vla.
7
f
Spiccato
ff
5

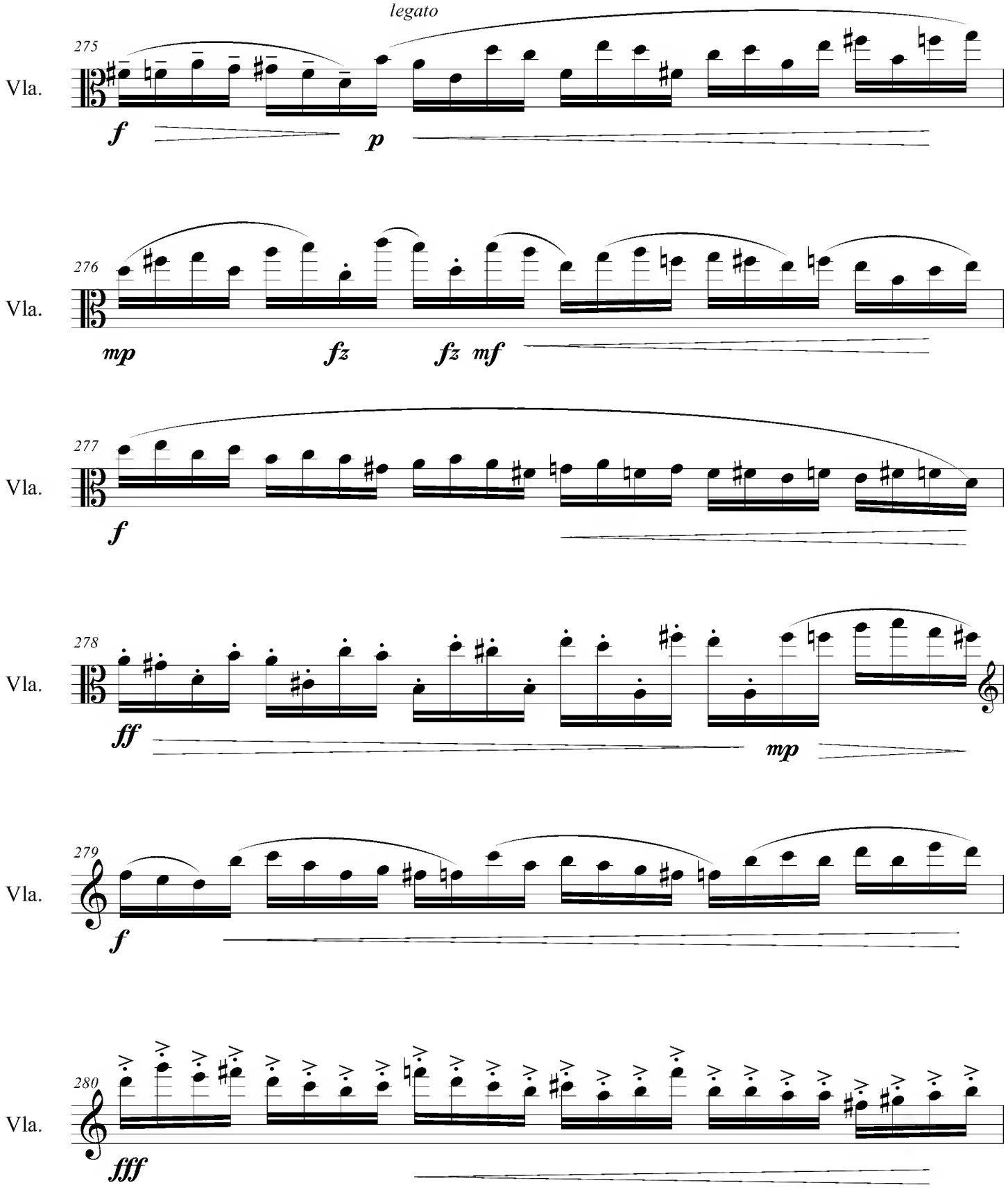

219
Vla.
mp
5
ff
6
mf
221
Vla.
ffff
staccatissimo
223
Vla.
f
mf
6
225
Vla.
mp
6
3
7
7
f
227
Vla.
mf
229
Vla.
sffz
mp
6
7
f

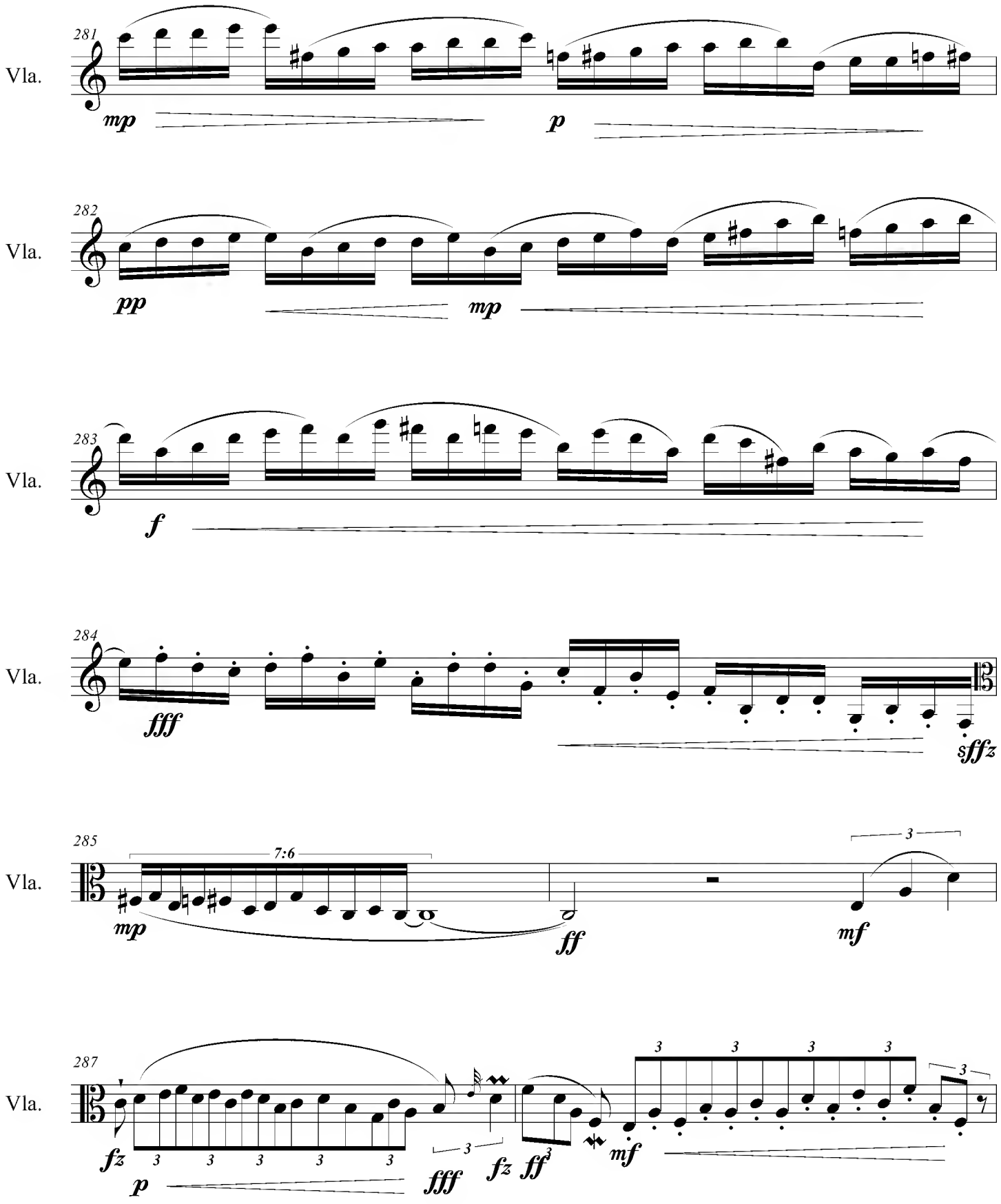

231
Vla.
mf
6
f
mp
tr
fff
233
Vla.
f
7
mf
tr
p
235
Vla.
p
5
ff
237
Vla.
mp
mf
ff
239
Vla.
f
f
241
Vla.
mf
7

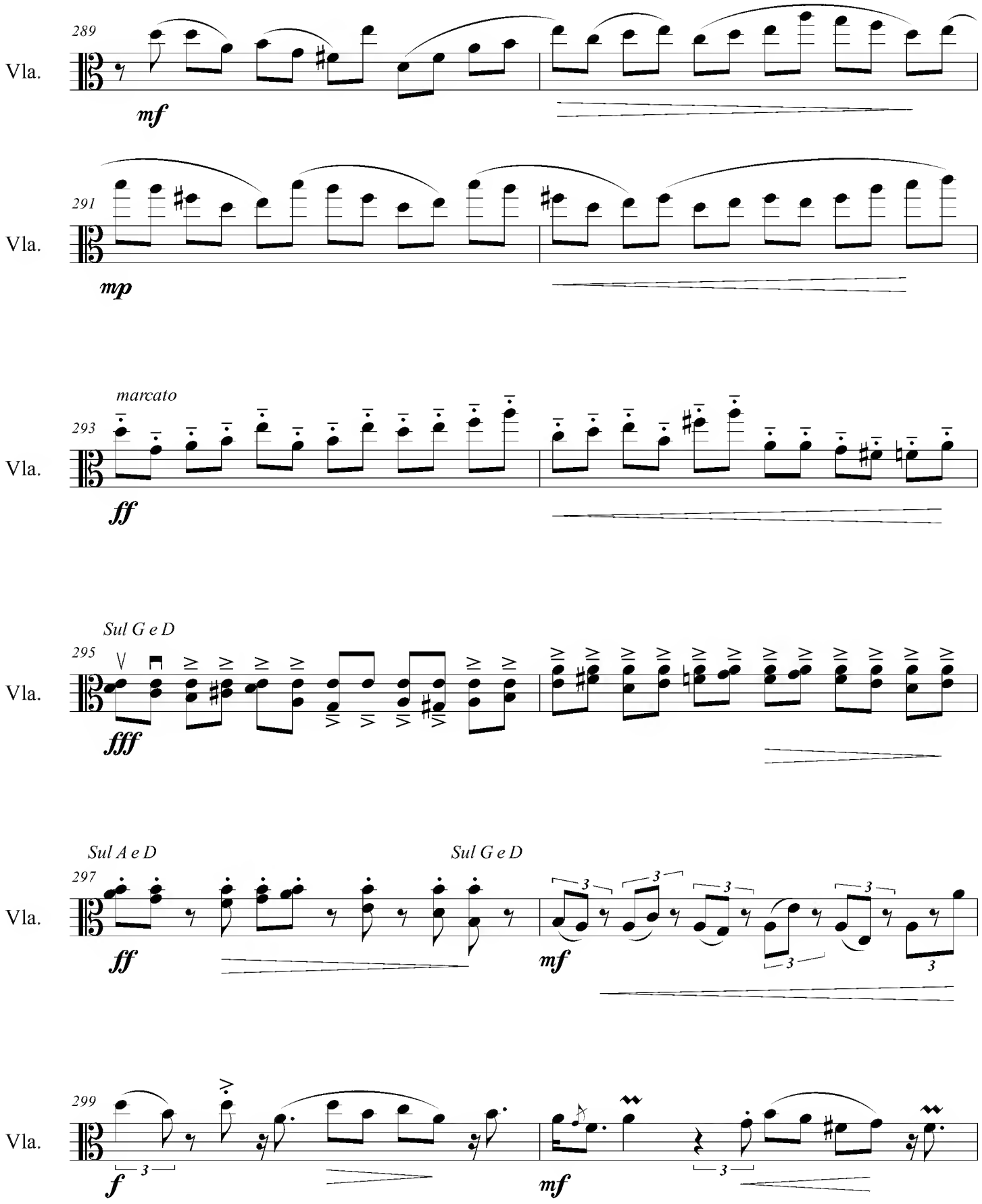

243
Vla.
mf
5
f
245
Vla.
ff
mp
247
Vla.
mf
7
6
6
6
6
249
Vla.
mf
ff
6
251
Vla.
mf
6
sffz
253
Vla.
p
mf
5
7

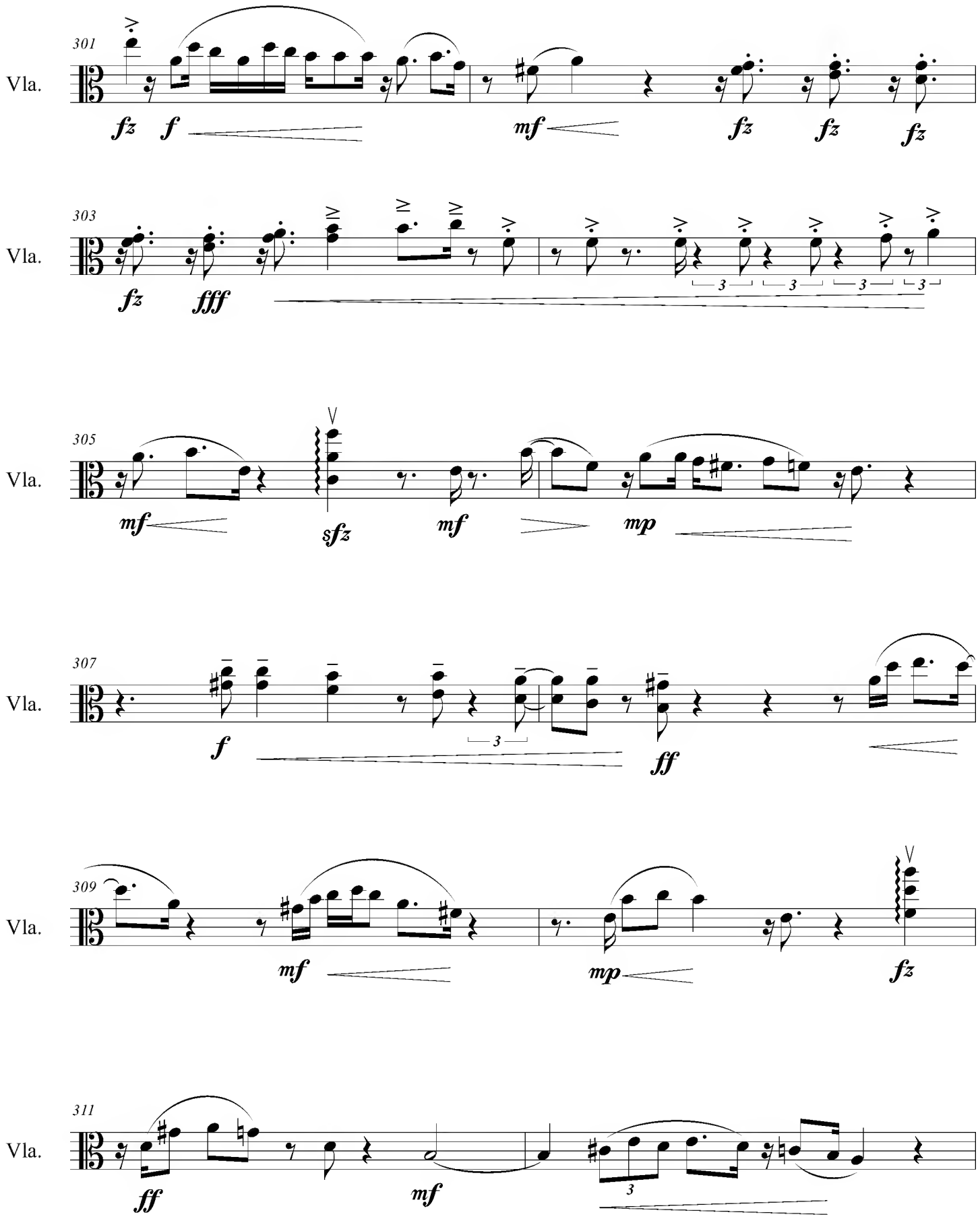

255
Vla.
f
mf
257
Vla.
f
7
ff
fz
sfz
7
6
259
Vla.
fff
261
Vla.
mp
fff
mp
fz
p
263
Vla.
mp
7
f
7
5
fz
265
Vla.
sfz
f
7
fff

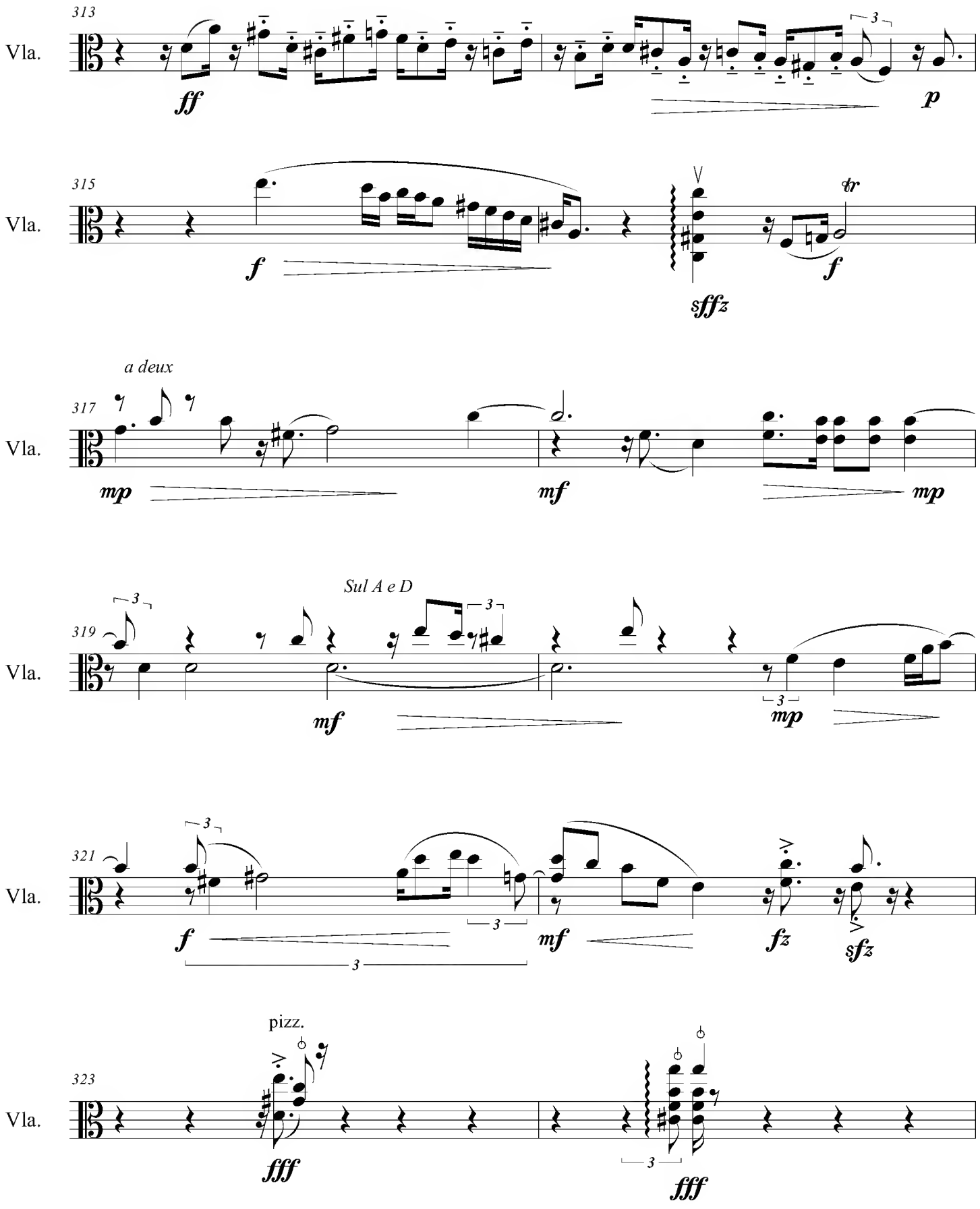

267
Vla.
ffff
fz
fff
Sul Pont.
Sul C e G
269
Sul G e D
Vla.
ffff
fff
niente
Prestissimo ♩ = 184.5
no cents numbers needed; please see legend
legato
ord.
271
Vla.
10 edo
pp
f
mp
272
Vla.
mp
f
Spiccato
273
Vla.
ff
274
Vla.
f

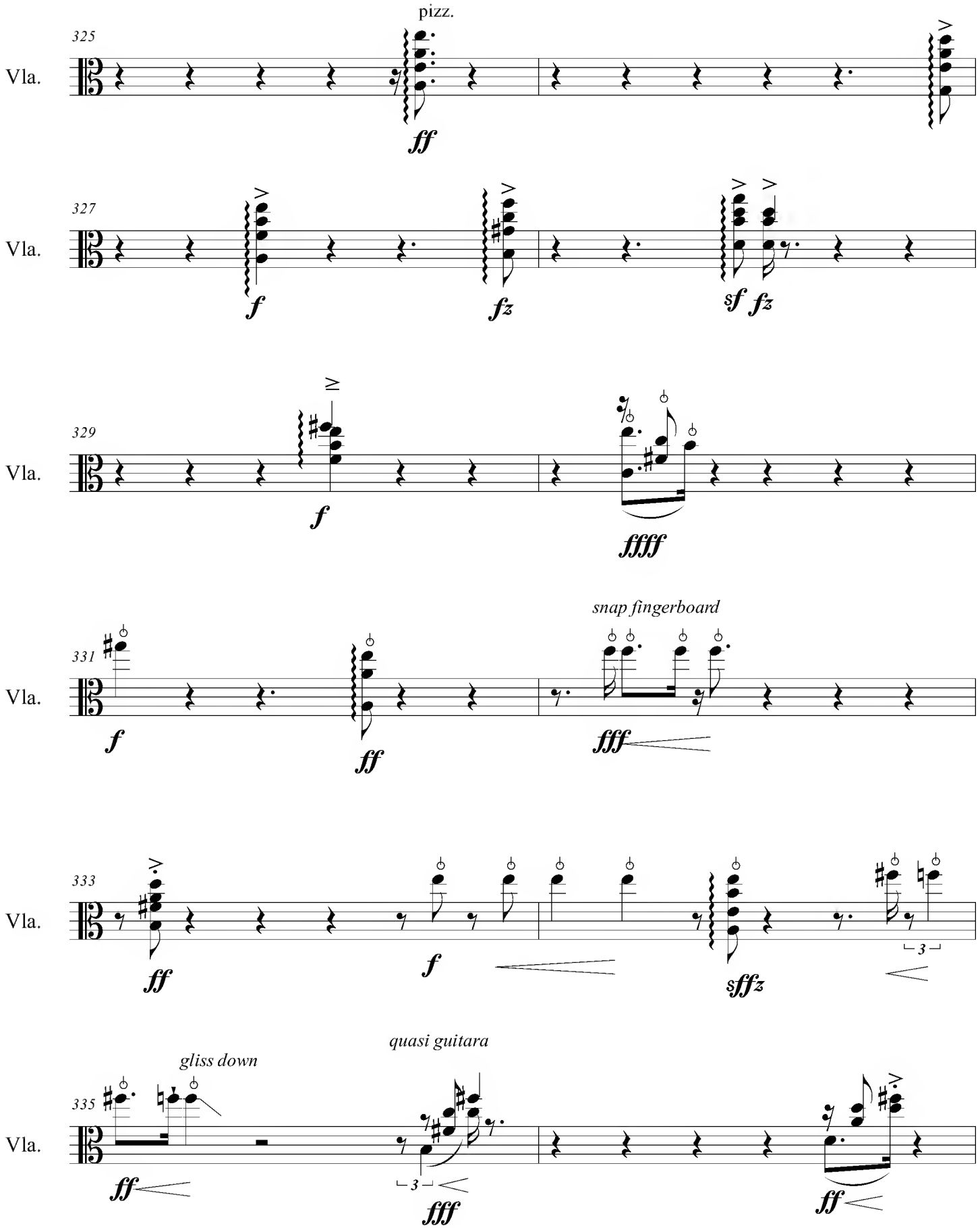

legato
275
Vla.
f
p
276
Vla.
mp
fz
fz mf
277
Vla.
f
278
Vla.
ff
mp
279
Vla.
f
280
Vla.
fff

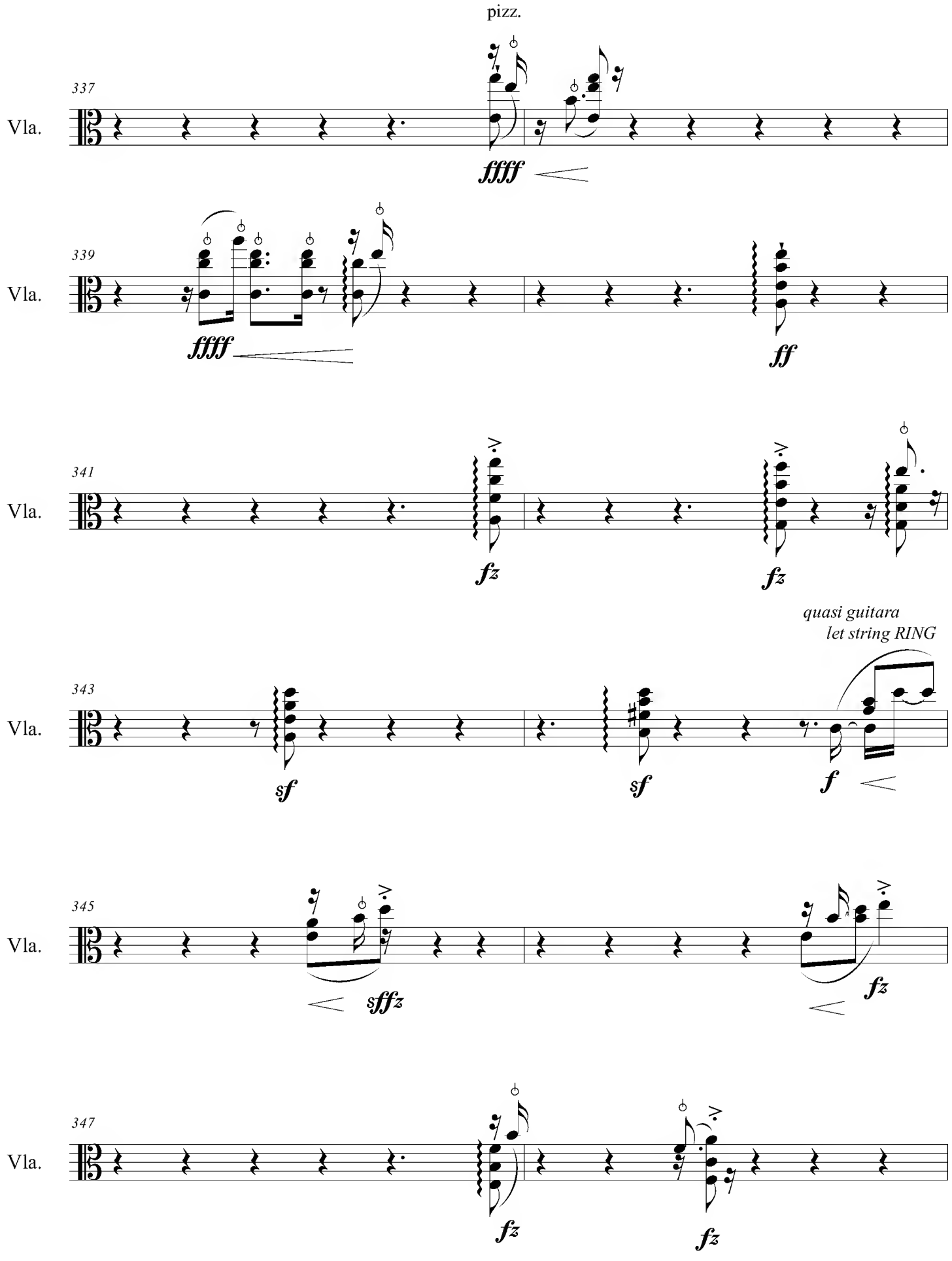

281
Vla.
mp
p
282
Vla.
pp
mp
283
Vla.
f
284
Vla.
fff
sffz
285
Vla.
7:6
mp
ff
3
mf
287
Vla.
fz
3
p
fff
fz
ff
3
mf
3

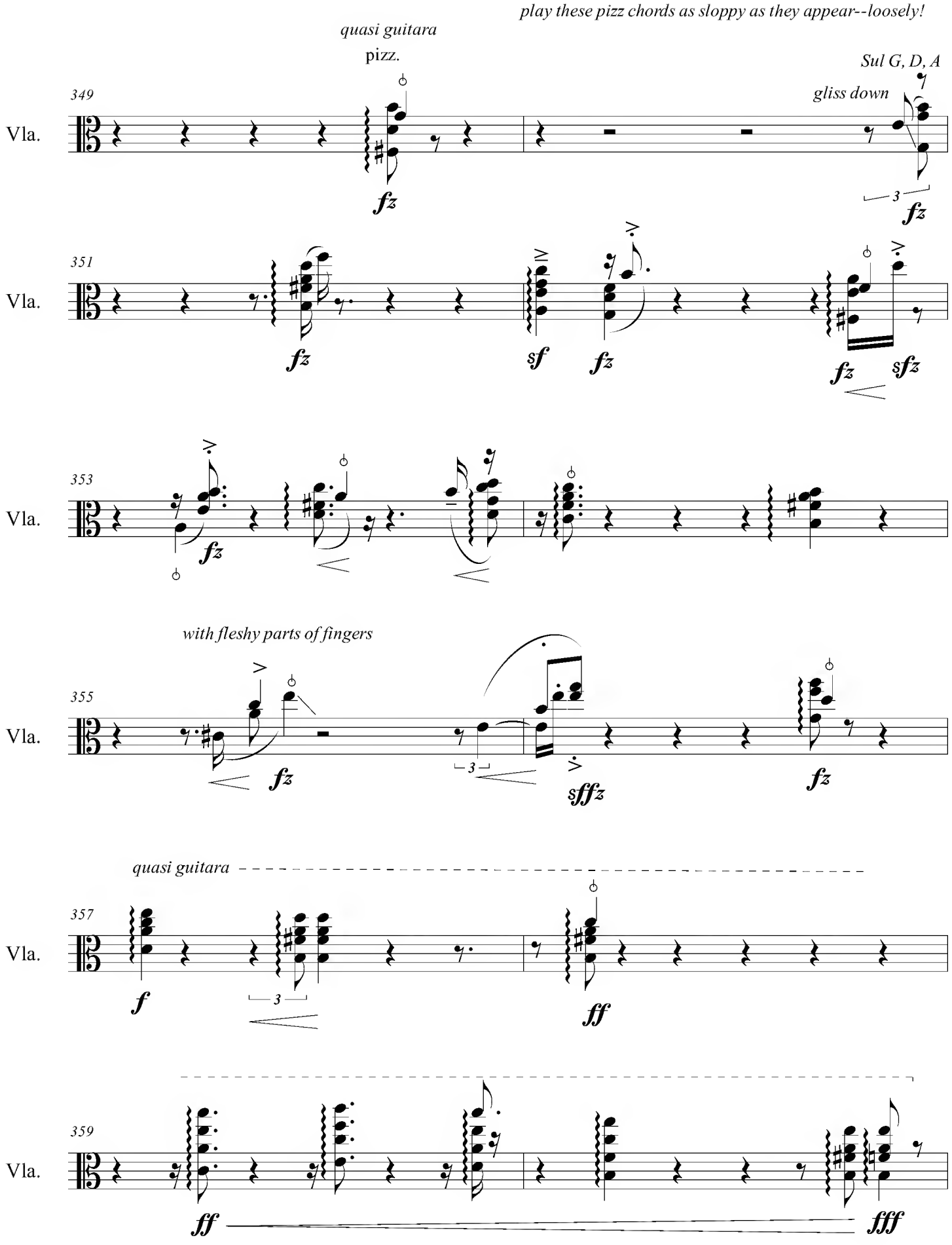

289
Vla.
mf
291
Vla.
mp
marcato
293
Vla.
ff
Sul G e D
295
Vla.
fff
Sul A e D
Sul G e D
297
Vla.
ff
mf
3
299
Vla.
f
mf
3

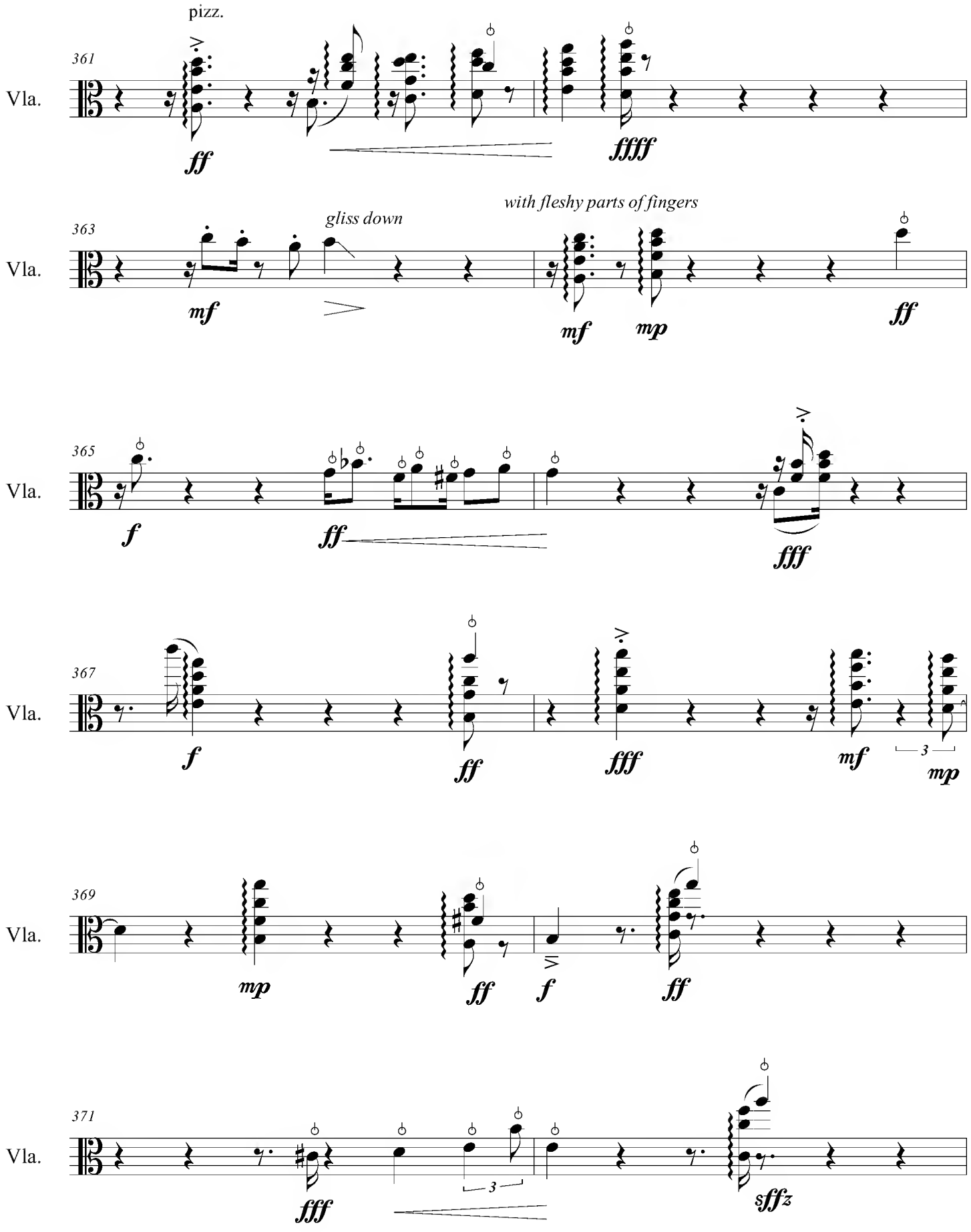

301
Vla.
fz f mf fz fz fz
303
Vla.
fz fff
3 3 3 3
305
Vla.
mf sfz mf mp
307
Vla.
f ff
3
309
Vla.
mf mp fz
311
Vla.
ff mf
3

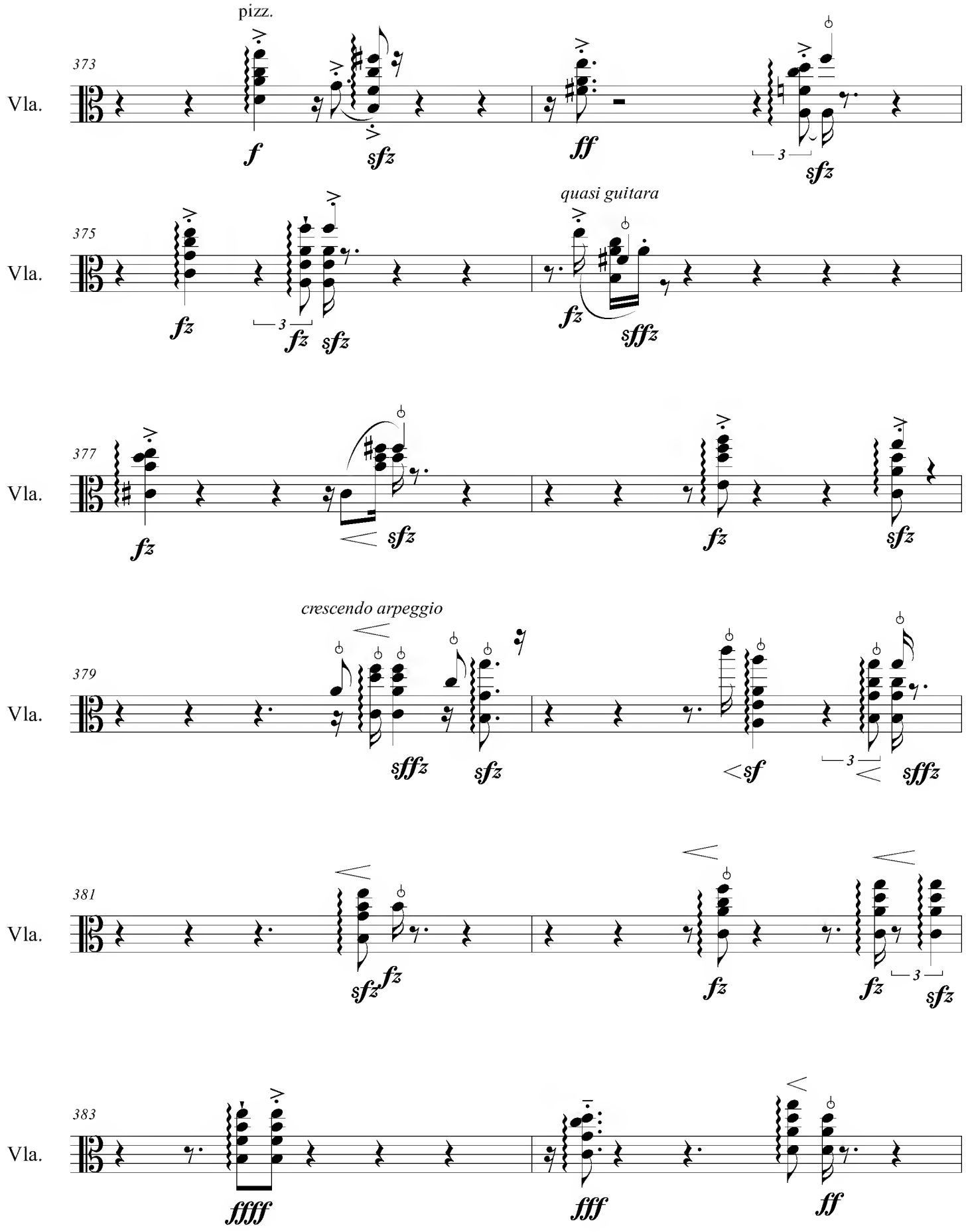

313
Vla.
ff
3
p
315
Vla.
f
sffz
tr
f
a deux
317
Vla.
mp
mf
mp
Sul A e D
319
Vla.
3
mf
3
mp
321
Vla.
3
f
3
3
mf
fz
sfz
pizz.
323
Vla.
fff
3
fff

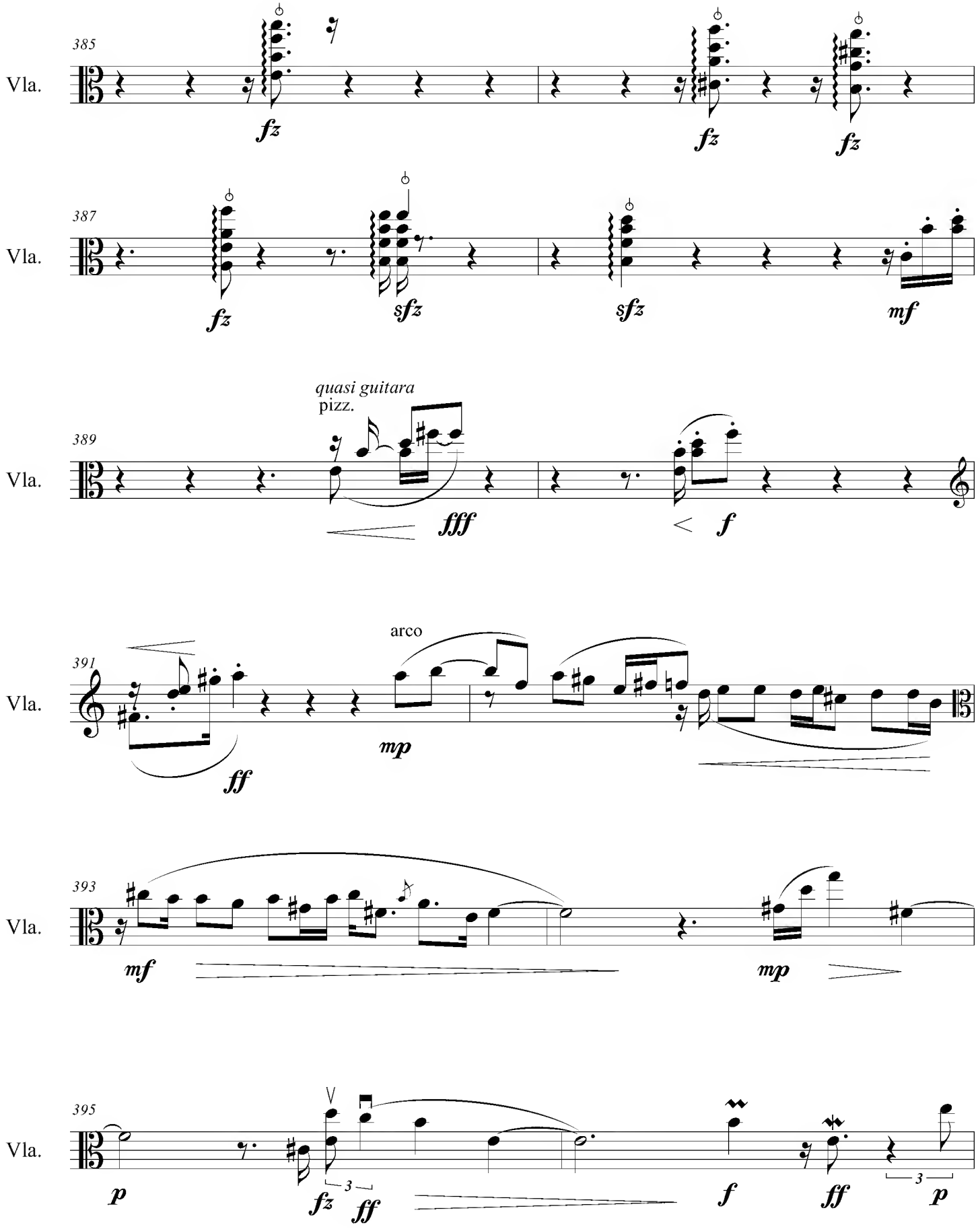

pizz.
325
Vla.
ff
327
Vla.
f
fz
sf
fz
329
Vla.
f
ffff
snap fingerboard
331
Vla.
f
ff
fff
333
Vla.
ff
f
sffz
3
quasi guitara
gliss down
335
Vla.
ff
3
fff
ff

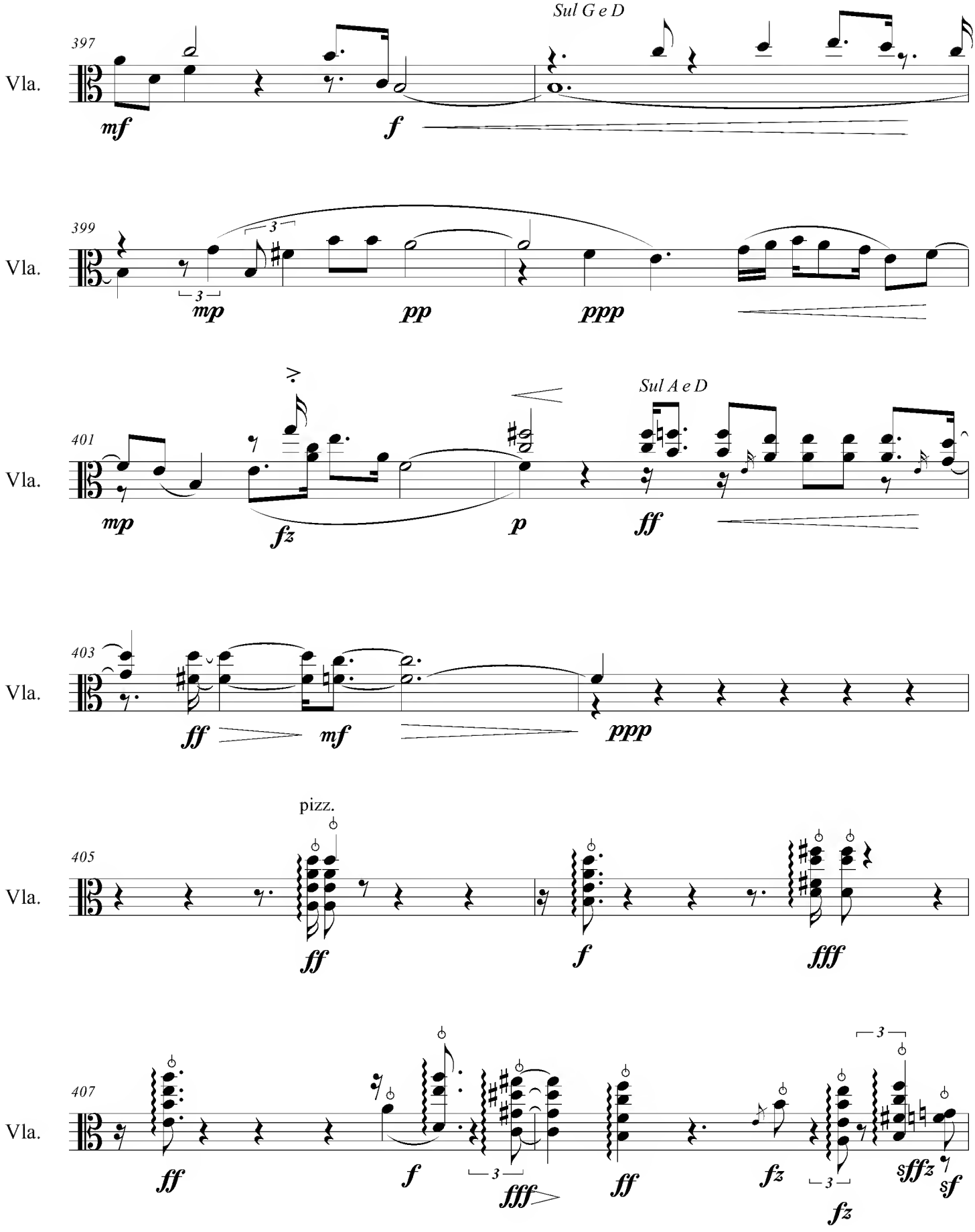

pizz.
337
Vla.
ffff
339
Vla.
ffff
ff
341
Vla.
fz
fz
quasi guitara
let string RING
343
Vla.
sf
sf
f
345
Vla.
sffz
fz
347
Vla.
fz
fz

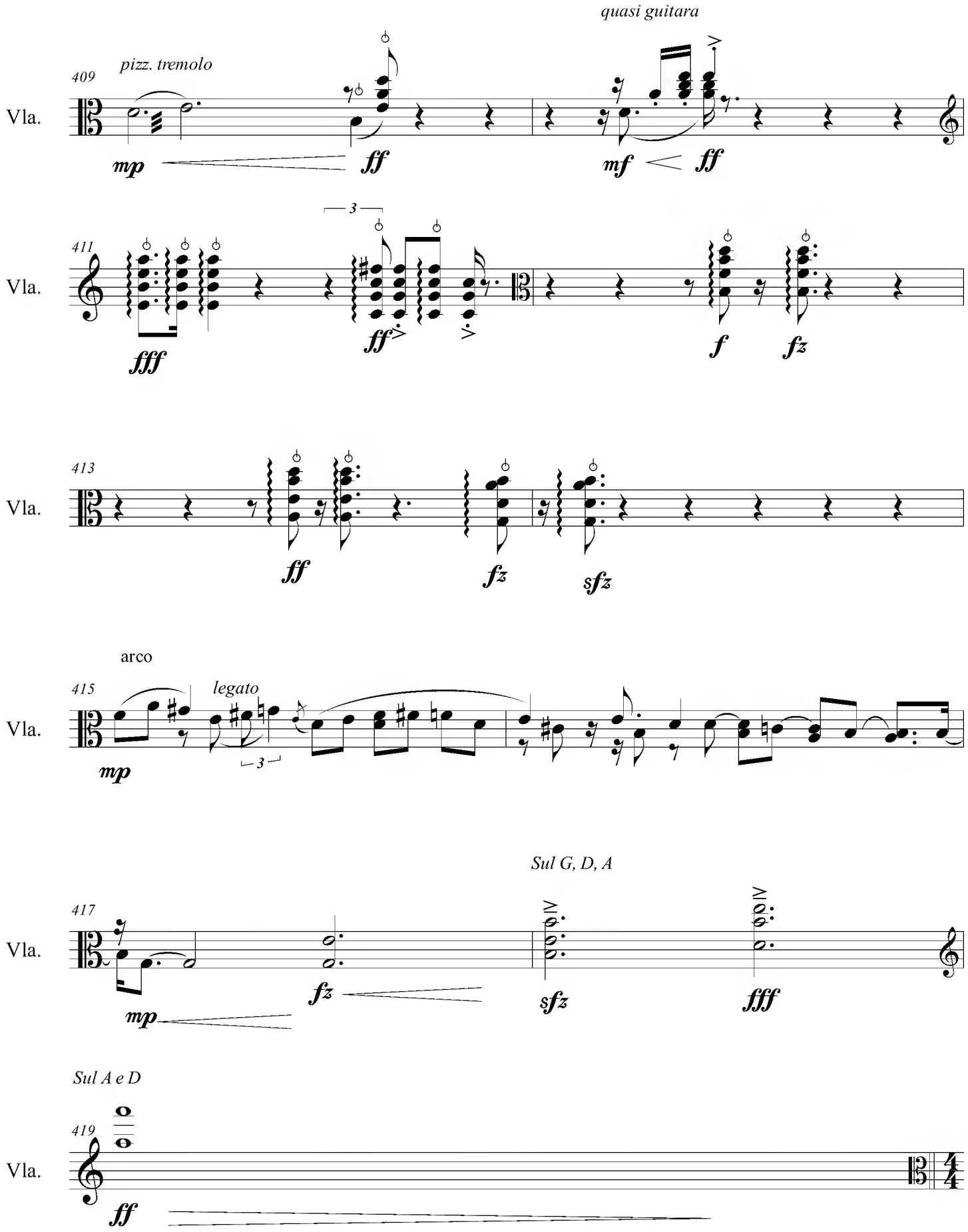

play these pizz chords as sloppy as they appear--loosely!
quasi guitara
pizz.
Sul G, D, A
gliss down
349
Vla.
fz
3
fz
351
Vla.
fz
sf
fz
fz
sfz
353
Vla.
fz
with fleshy parts of fingers
355
Vla.
fz
3
sfffz
fz
quasi guitara
357
Vla.
f
3
ff
359
Vla.
ff
fff


pizz.
361
Vla.
ff
ffff
gliss down
with fleshy parts of fingers
363
Vla.
mf
mf
mp
ff
365
Vla.
f
ff
fff
367
Vla.
f
ff
fff
mf
3
mp
369
Vla.
mp
ff
VI
f
ff
371
Vla.
fff
3
sffz


pizz.
373
Vla.
f
sfz
ff
3
sfz
quasi guitara
375
Vla.
fz
3
fz
sfz
fz
sffz
377
Vla.
fz
sfz
fz
sfz
crescendo arpeggio
379
Vla.
sffz
sfz
sf
3
sffz
381
Vla.
sfz
fz
fz
3
sfz
383
Vla.
ffff
fff
ff

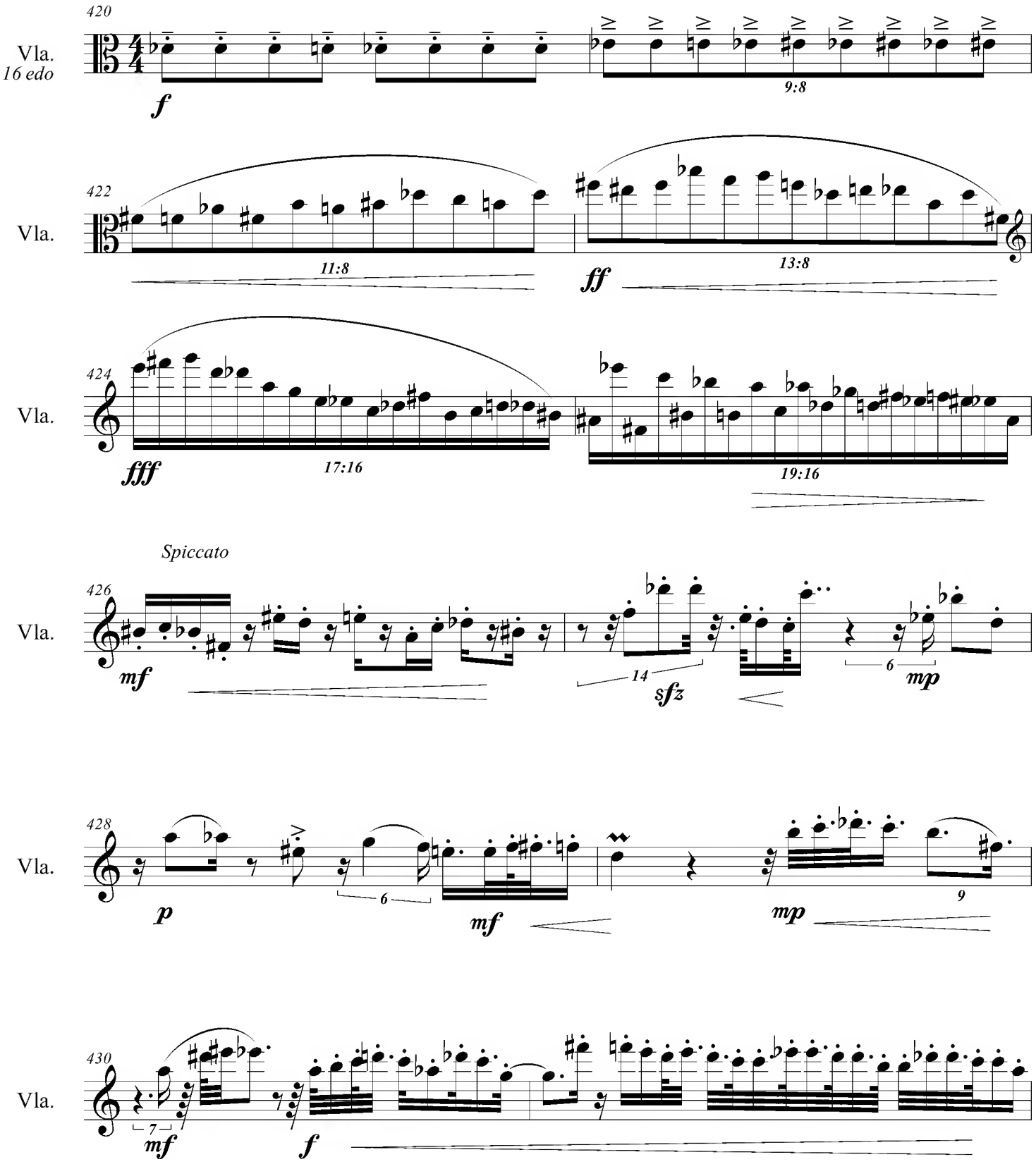

385
Vla.
fz
fz
fz
387
Vla.
fz
sfz
sfz
mf
quasi guitara
pizz.
389
Vla.
fff
f
arco
391
Vla.
ff
mp
393
Vla.
mf
mp
395
Vla.
p
fz
ff
3
f
ff
3
p

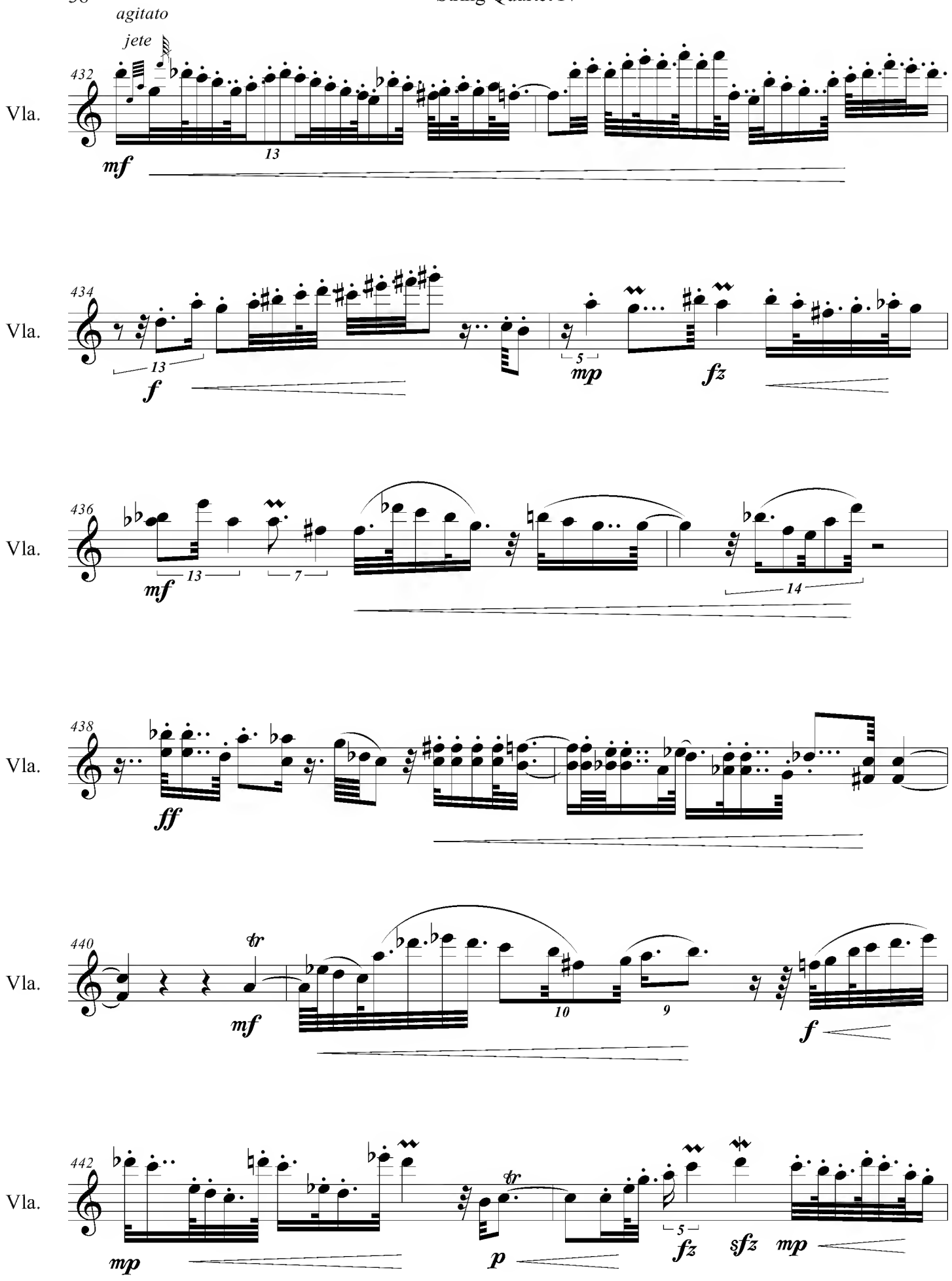

Sul G e D
397
Vla.
mf
f
399
Vla.
3
3
mp
pp
ppp
401
Vla.
mp
fz
p
Sul A e D
ff
403
Vla.
ff
mf
ppp
pizz.
405
Vla.
ff
f
fff
407
Vla.
ff
f
3
fff
ff
fz
3
fz
sffz
sf

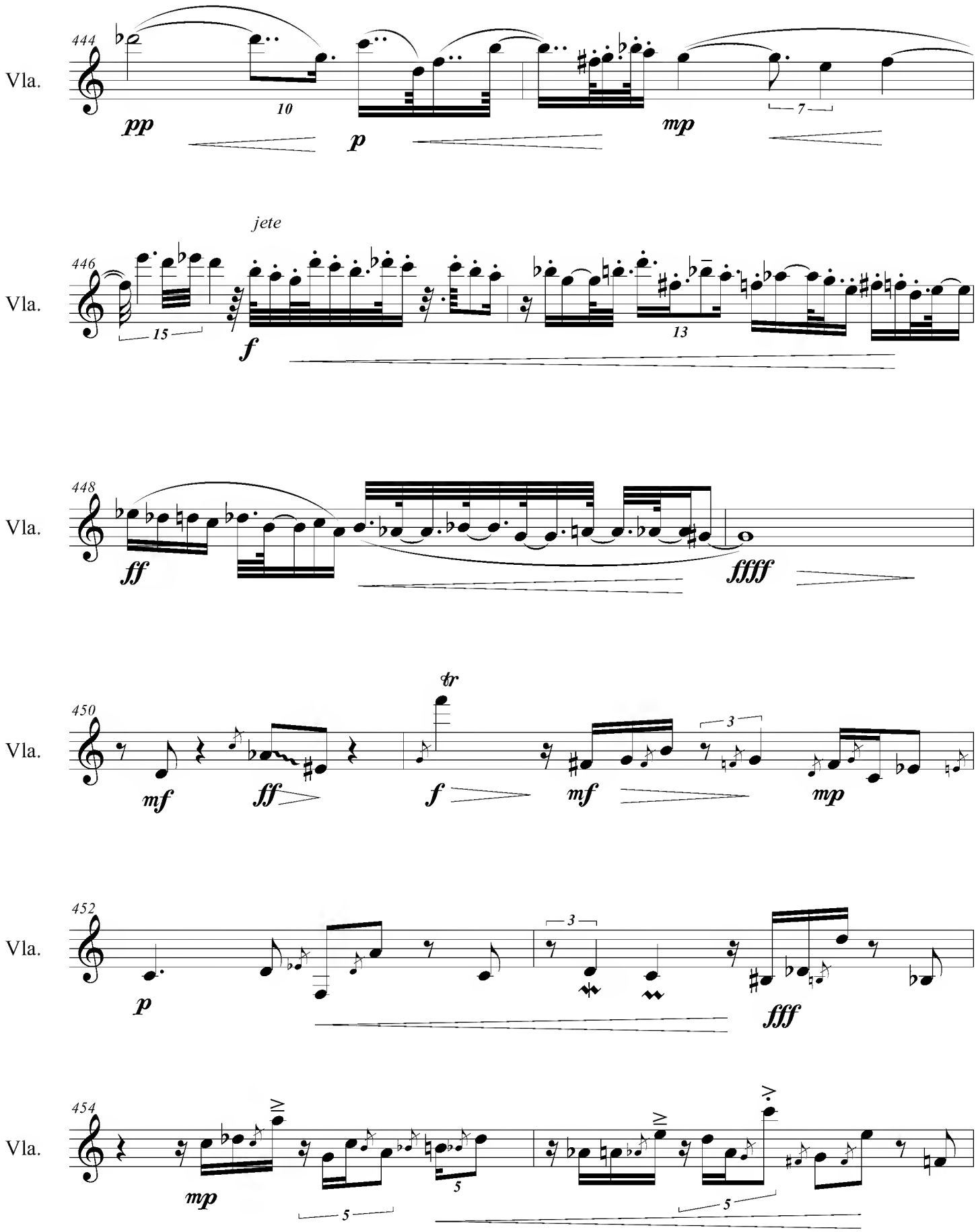

quasi guitara
409
pizz. tremolo
Vla.
mp
ff
mf
ff
411
Vla.
3
fff
ff
f
fz
413
Vla.
ff
fz
sfz
arco
415
legato
Vla.
mp
3
Sul G, D, A
417
Vla.
mp
fz
sfz
fff
Sul A e D
419
Vla.
ff
4/4

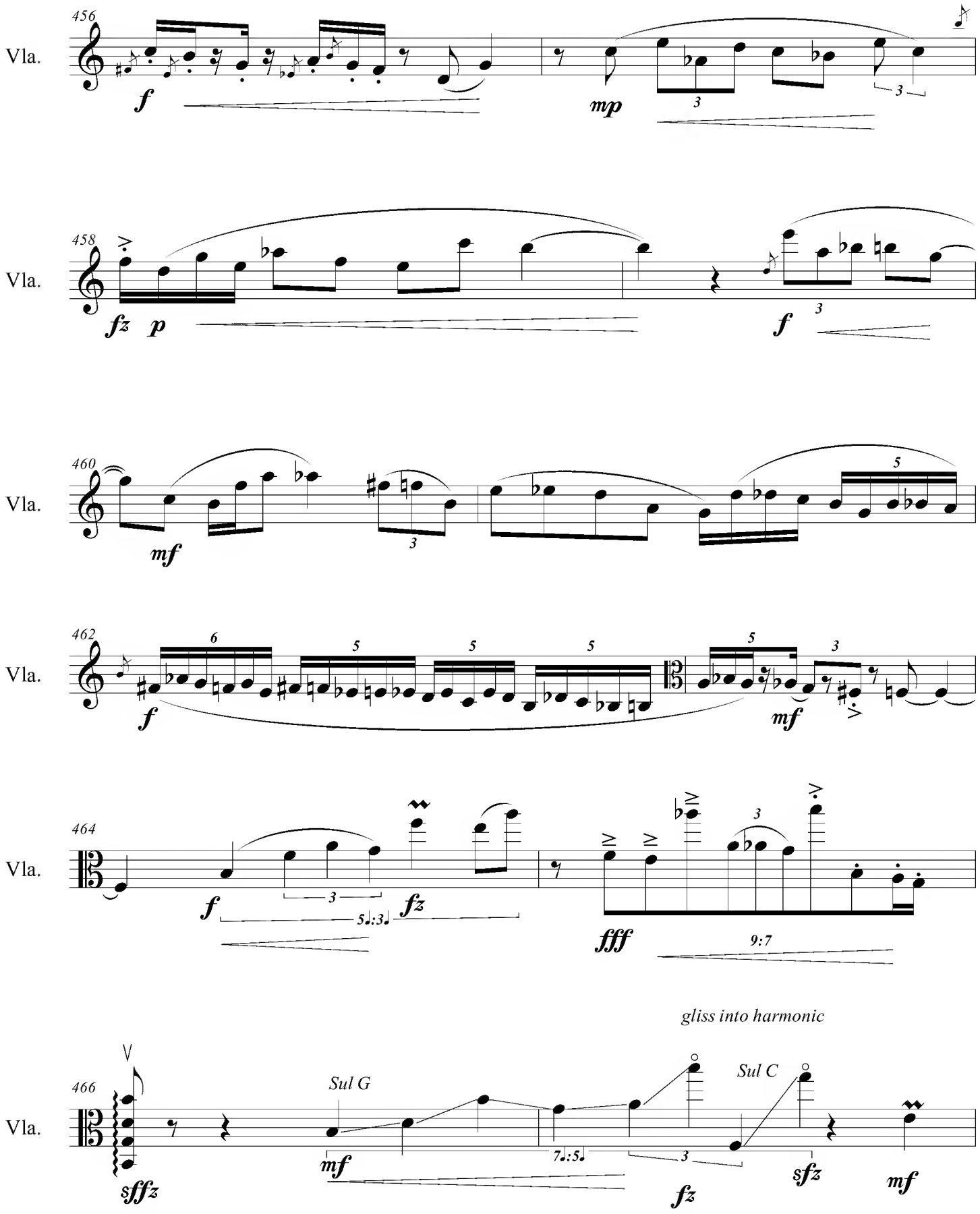
Primo Tempo

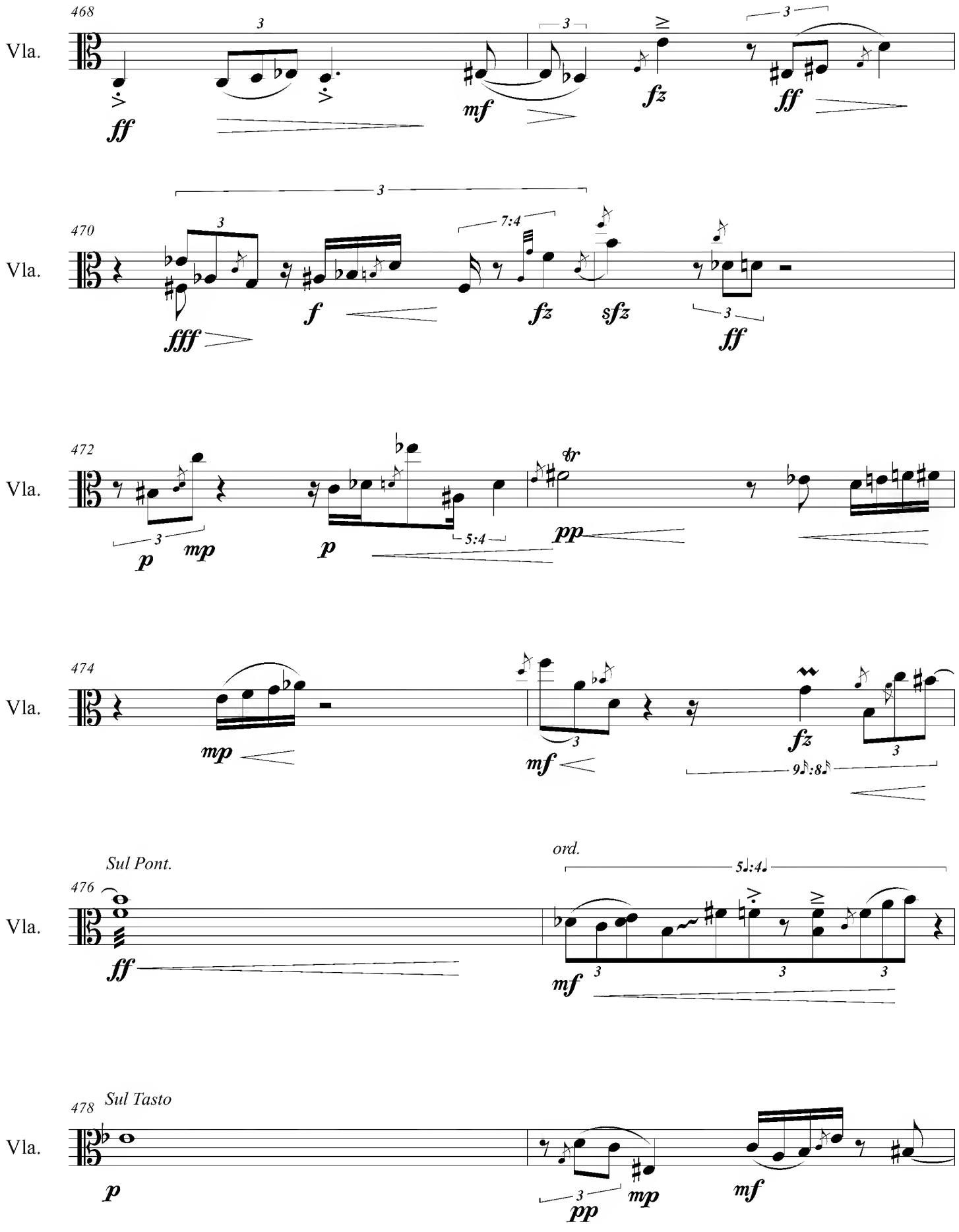
Moderato ♩ = 97.1

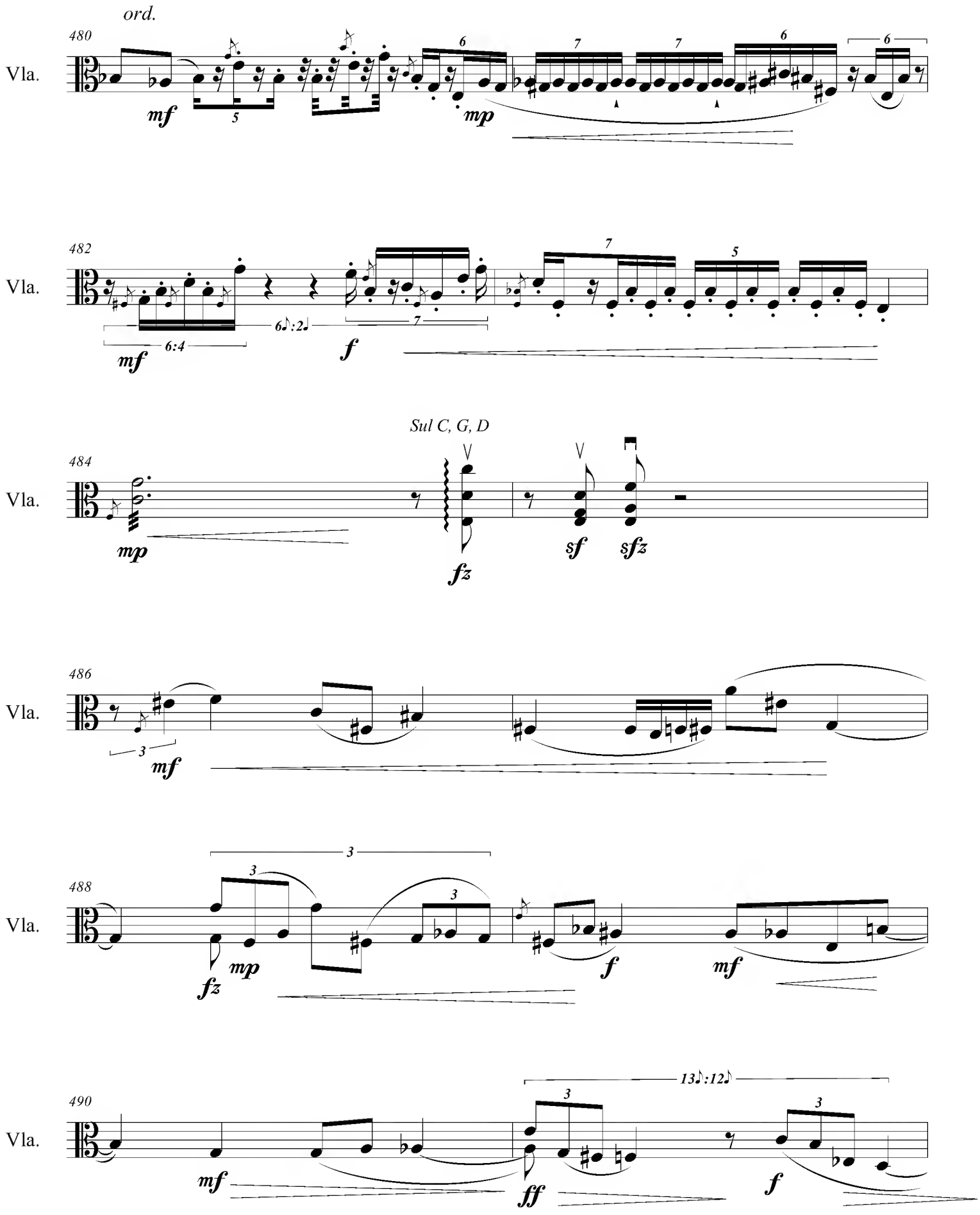


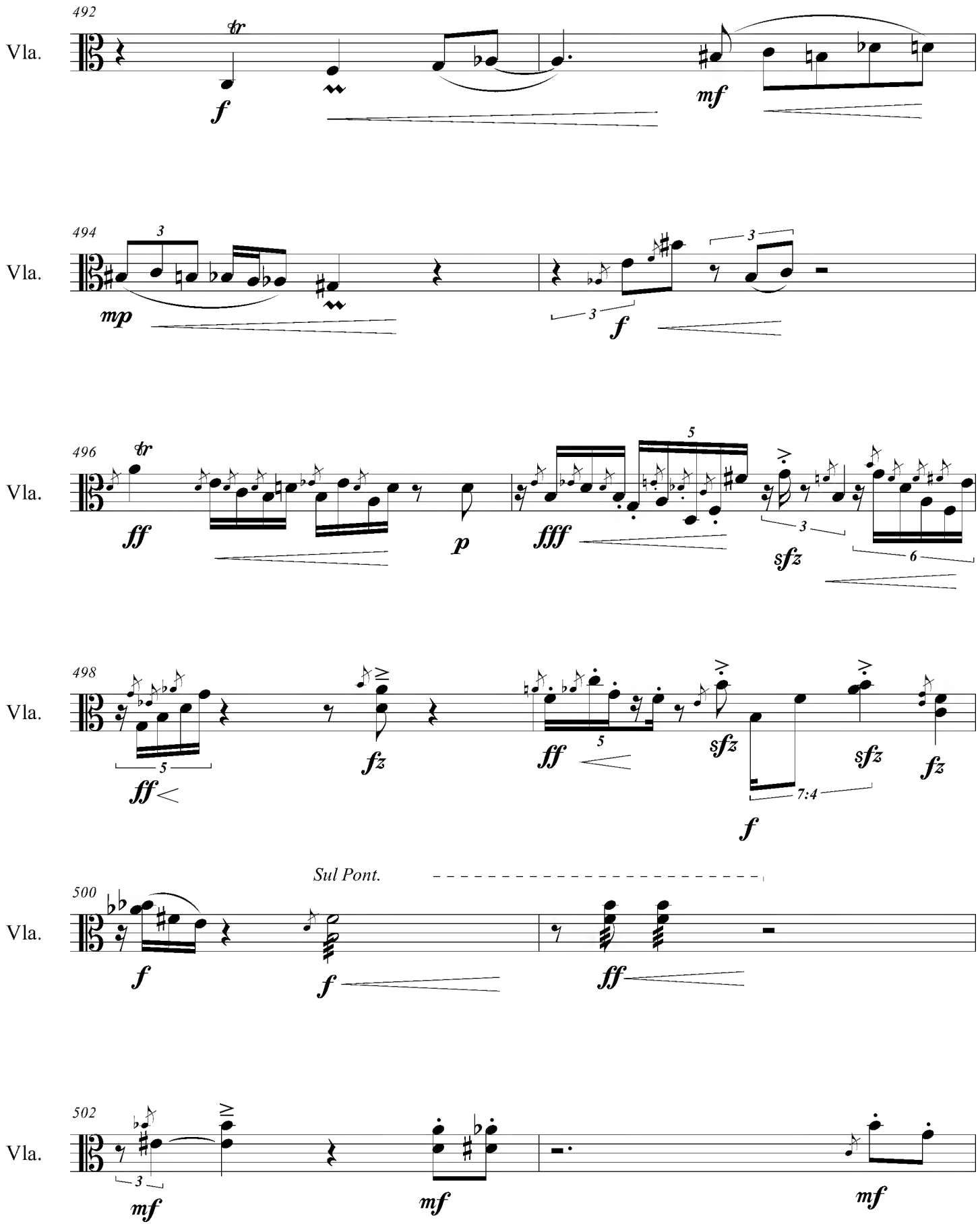

agitato
jete
432
Vla.
mf
13
434
Vla.
13
f
5
mp
fz
436
Vla.
mf
13
7
14
438
Vla.
ff
440
Vla.
tr
mf
10
9
f
442
Vla.
mp
tr
p
5
fz
sfz
mp

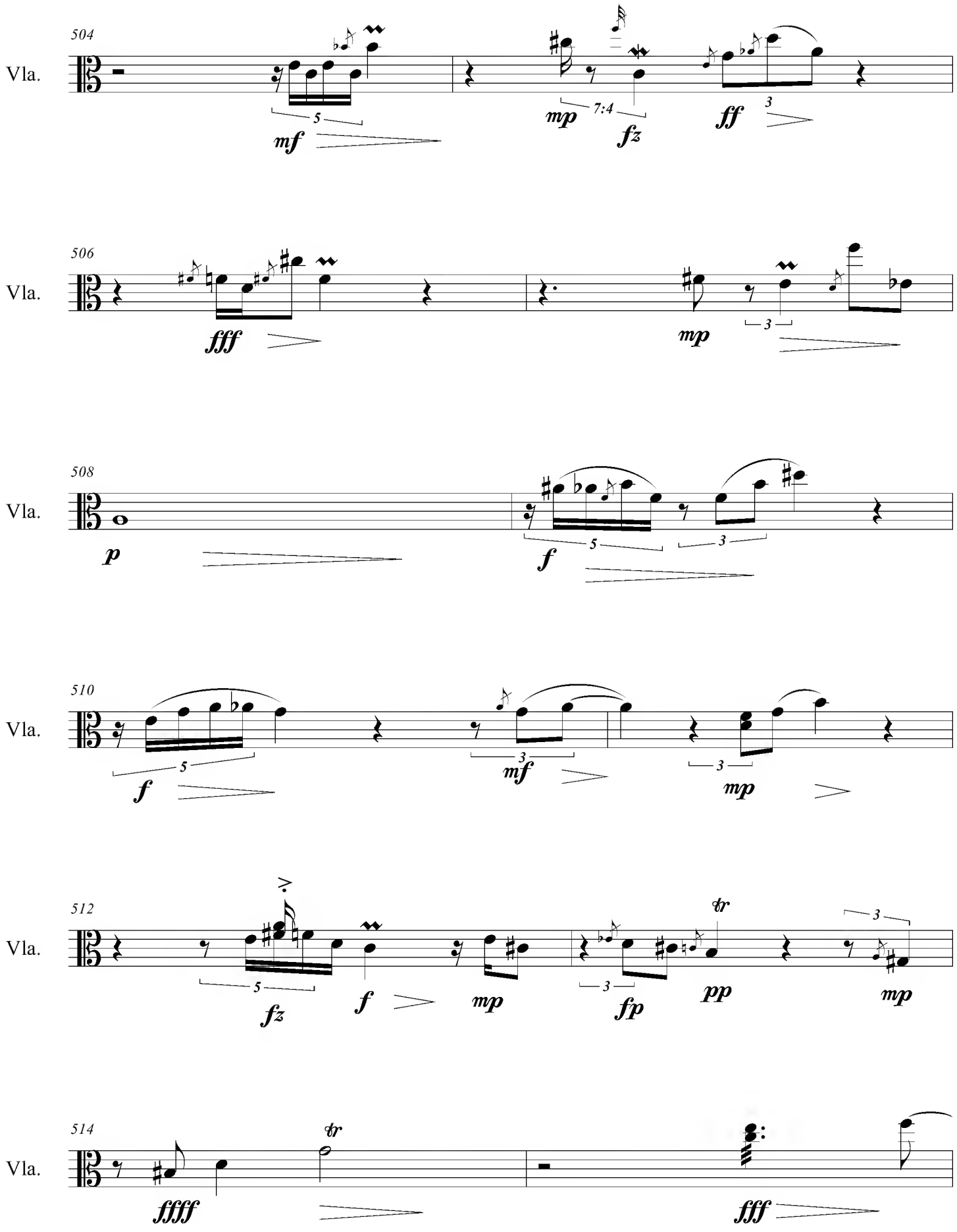

444
Vla.
pp
10
p
mp
7
jete
446
Vla.
15
f
13
448
Vla.
ff
ffff
450
Vla.
mf
ff
tr
f
mf
3
mp
452
Vla.
p
3
fff
454
Vla.
mp
5
5
5

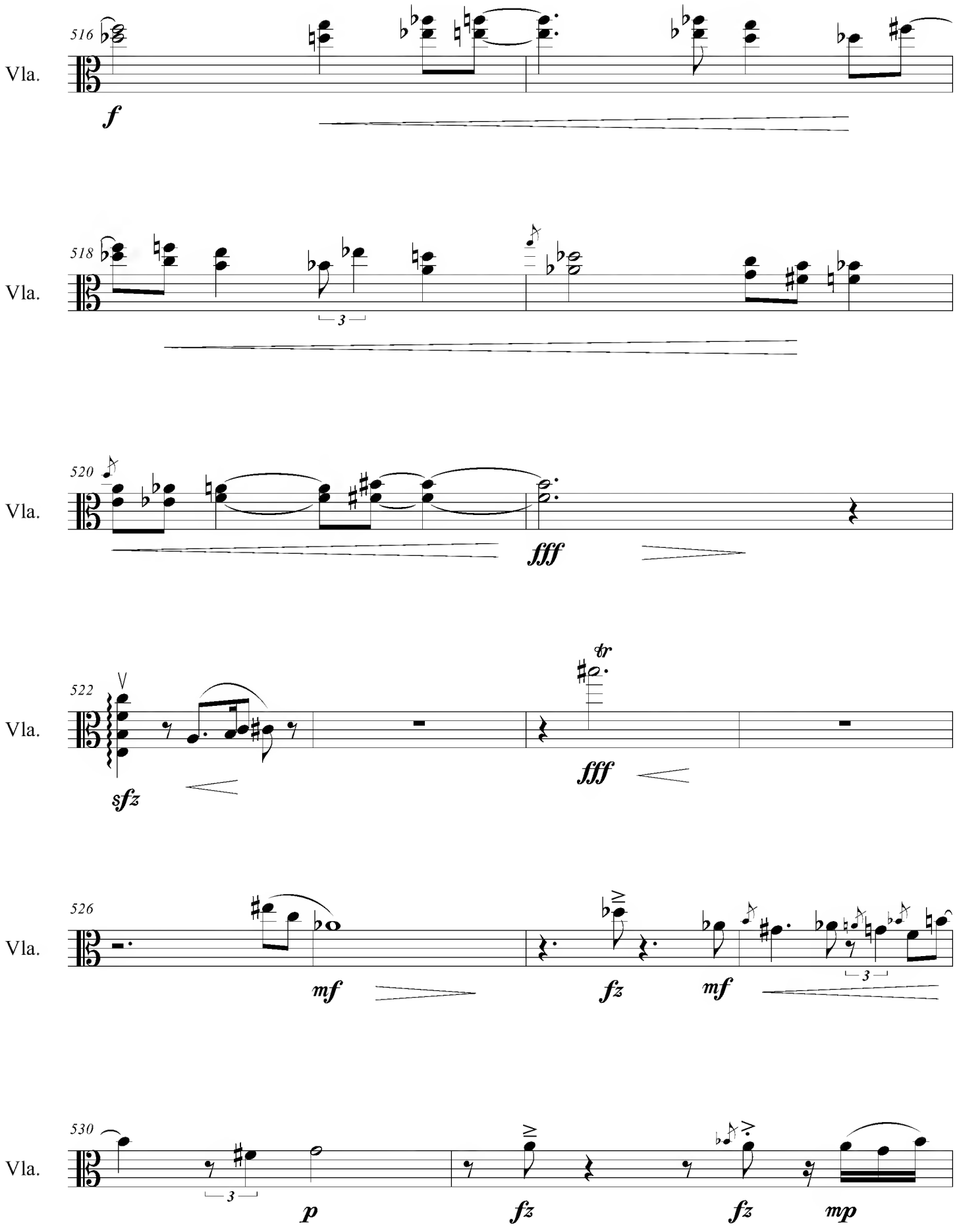

456
Vla.
f
mp
458
Vla.
fz
p
f
460
Vla.
mf
462
Vla.
f
mf
464
Vla.
f
fz
fff
9:7
gliss into harmonic
466
Vla.
sffz
Sul G
mf
Sul C
fz
sfz
mf

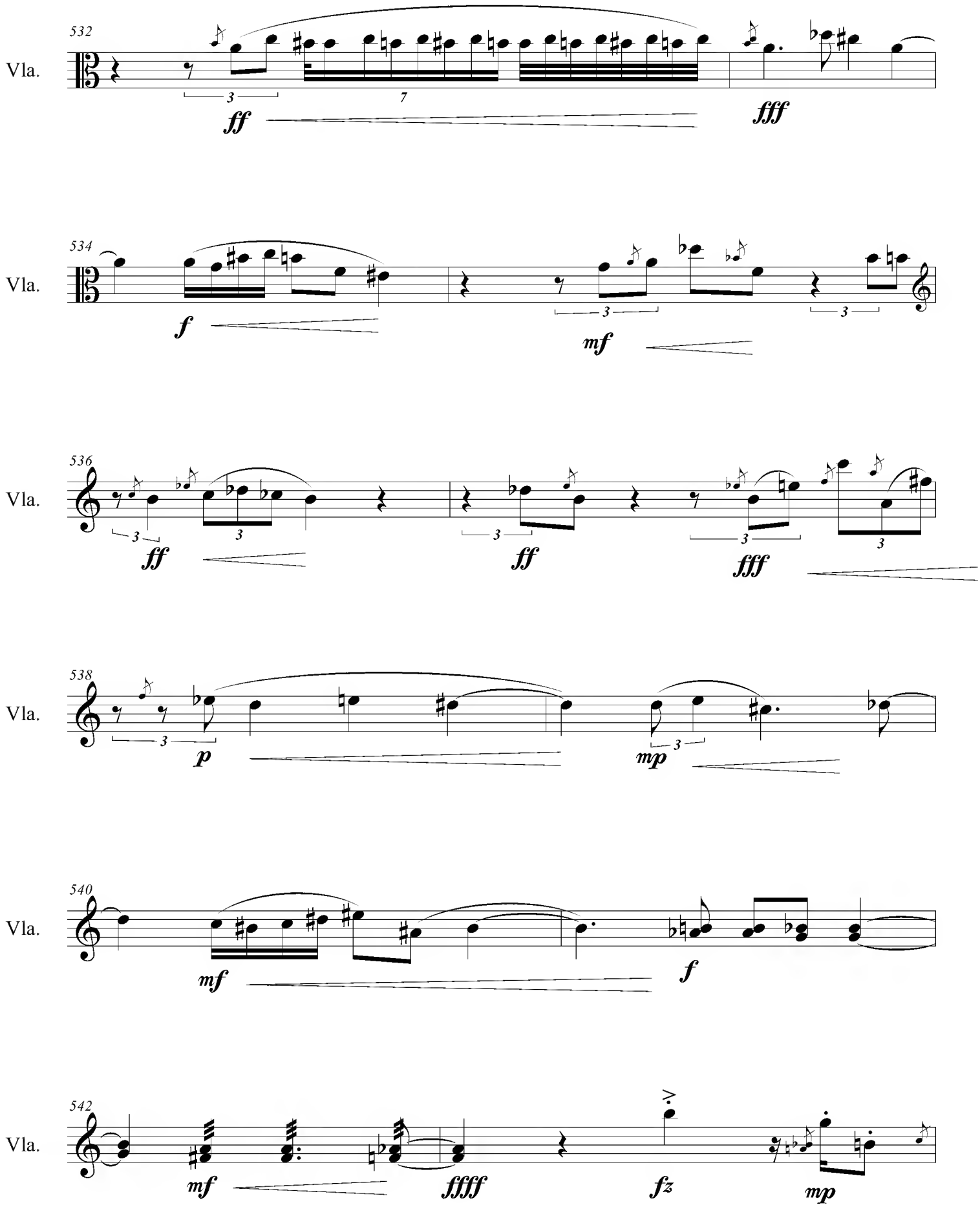

468
Vla.
ff
mf
fz
ff
470
Vla.
fff
f
fz
sfz
ff
7:4
472
Vla.
p
mp
p
pp
tr
5:4
474
Vla.
mp
mf
fz
9:8
Sul Pont.
ord.
476
Vla.
ff
mf
5:4
478
Sul Tasto
Vla.
p
pp
mp
mf

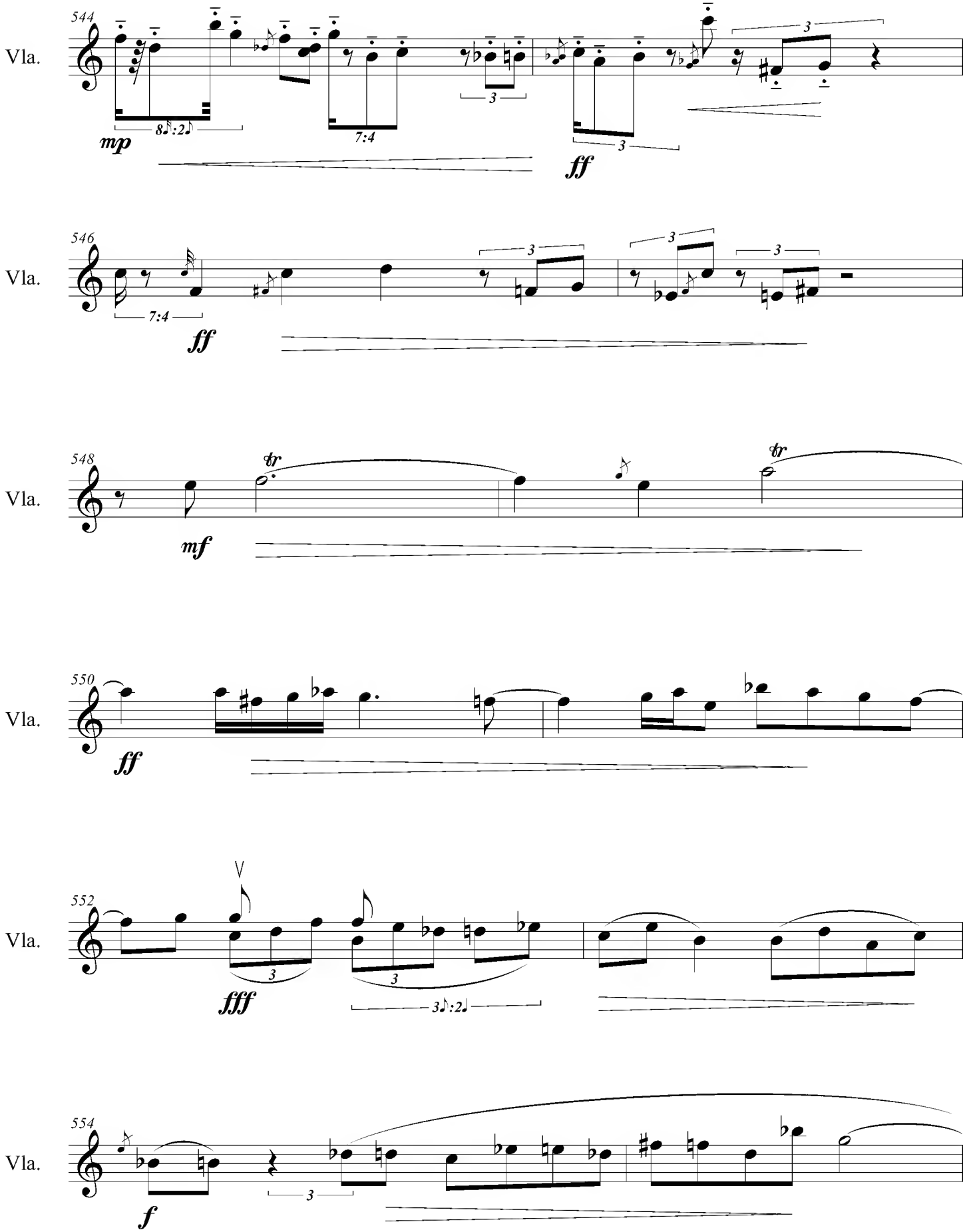

ord.
480
Vla.
mf
mp
482
Vla.
mf
6:4
6♪:2♩
f
Sul C, G, D
484
Vla.
mp
fz
sf
sfz
486
Vla.
mf
488
Vla.
fz
mp
f
mf
490
Vla.
mf
13♪:12♪
ff
f

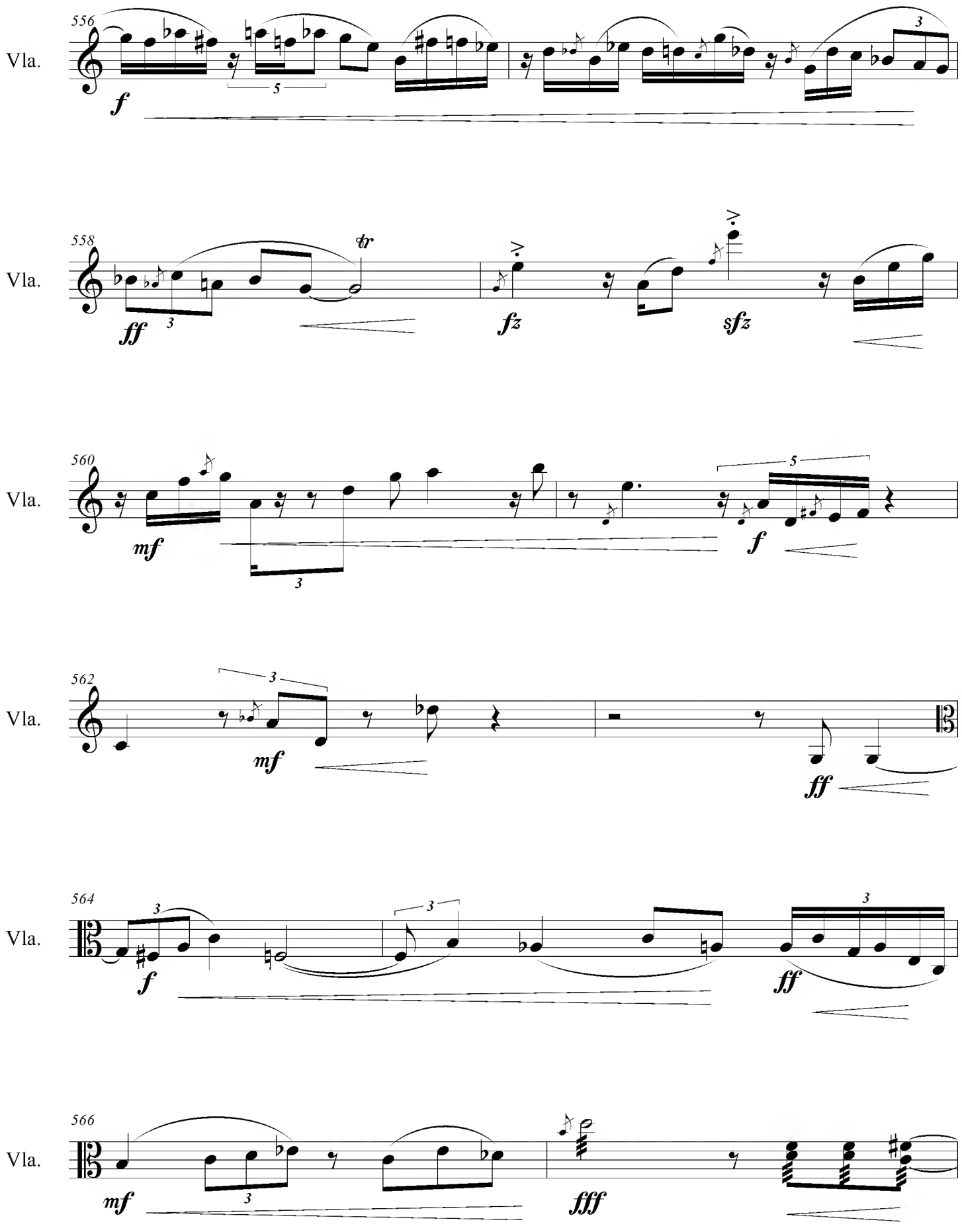

492
Vla.
tr
f
mf
494
Vla.
3
mp
3
f
496
Vla.
tr
ff
p
fff
5
3
sfz
6
498
Vla.
5
ff
fz
ff
5
sfz
sfz
fz
7:4
f
Sul Pont.
500
Vla.
f
f
ff
502
Vla.
3
mf
mf
mf

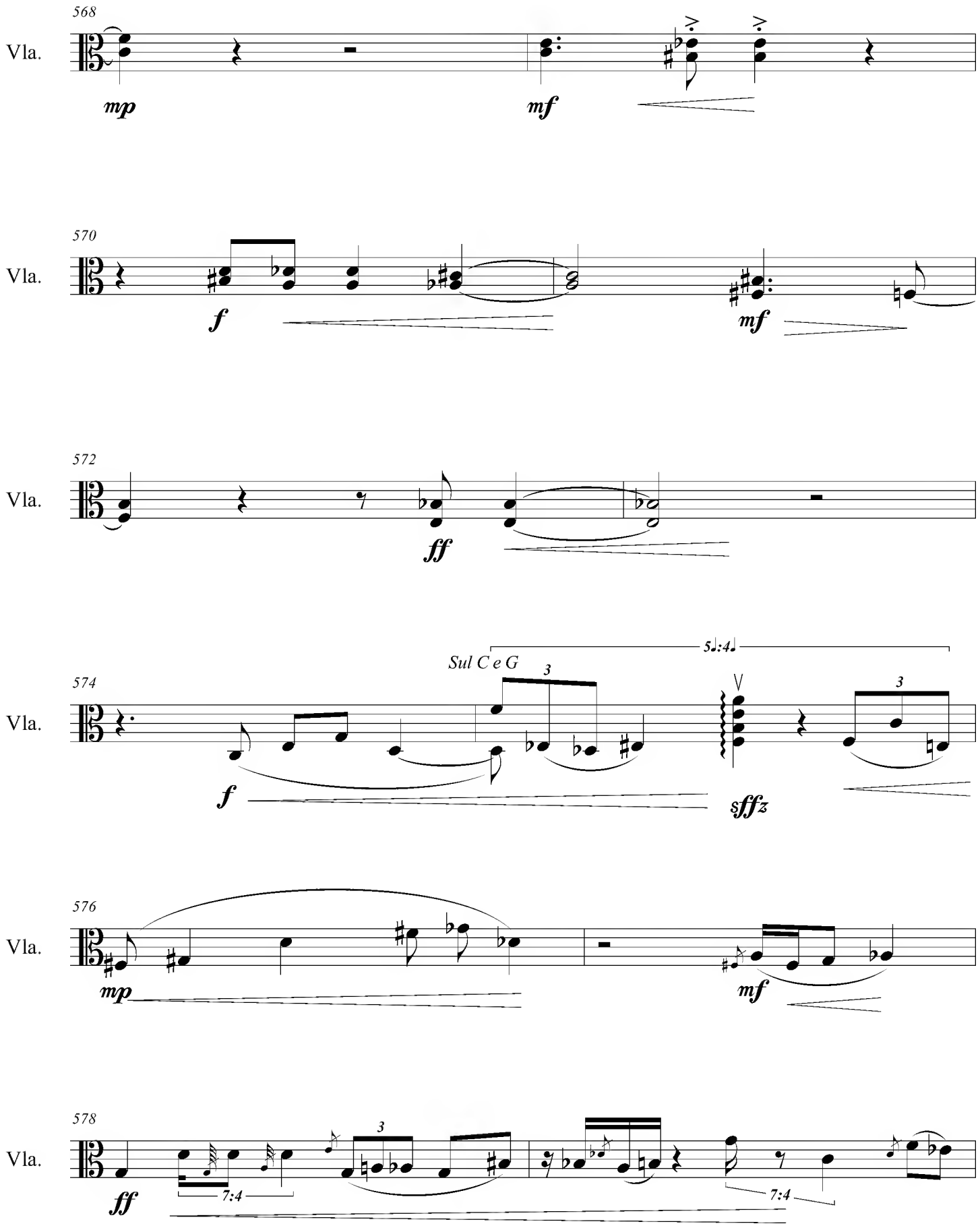

504
Vla.
mf
mp
7:4
fz
ff
506
Vla.
fff
mp
508
Vla.
p
f
510
Vla.
f
mf
mp
512
Vla.
fz
f
mp
fp
pp
tr
mp
514
Vla.
ffff
tr
fff

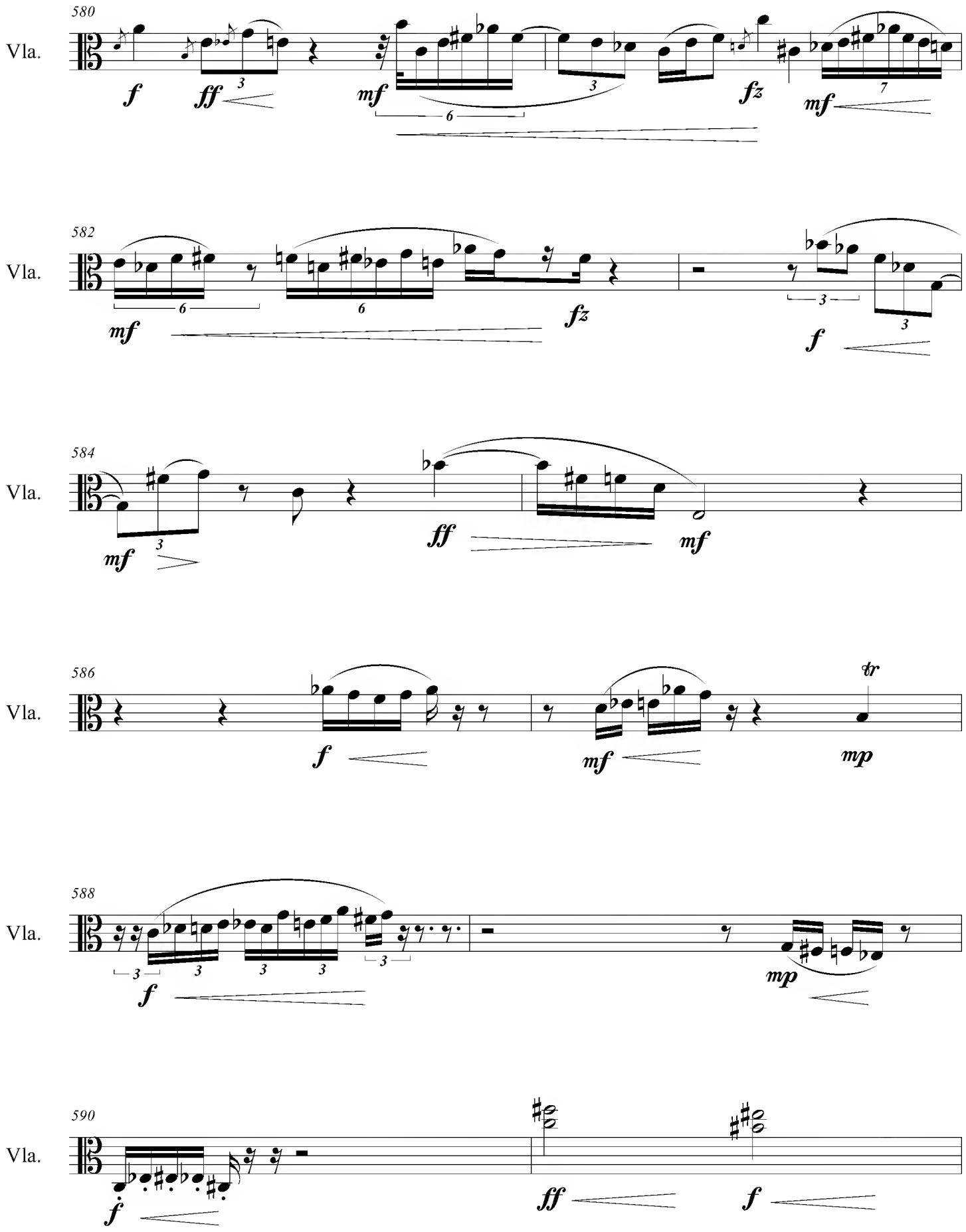

516
Vla.
f
518
Vla.
3
520
Vla.
fff
522
Vla.
sfz
tr
fff
526
Vla.
mf
fz
mf
3
530
Vla.
3
p
fz
fz
mp

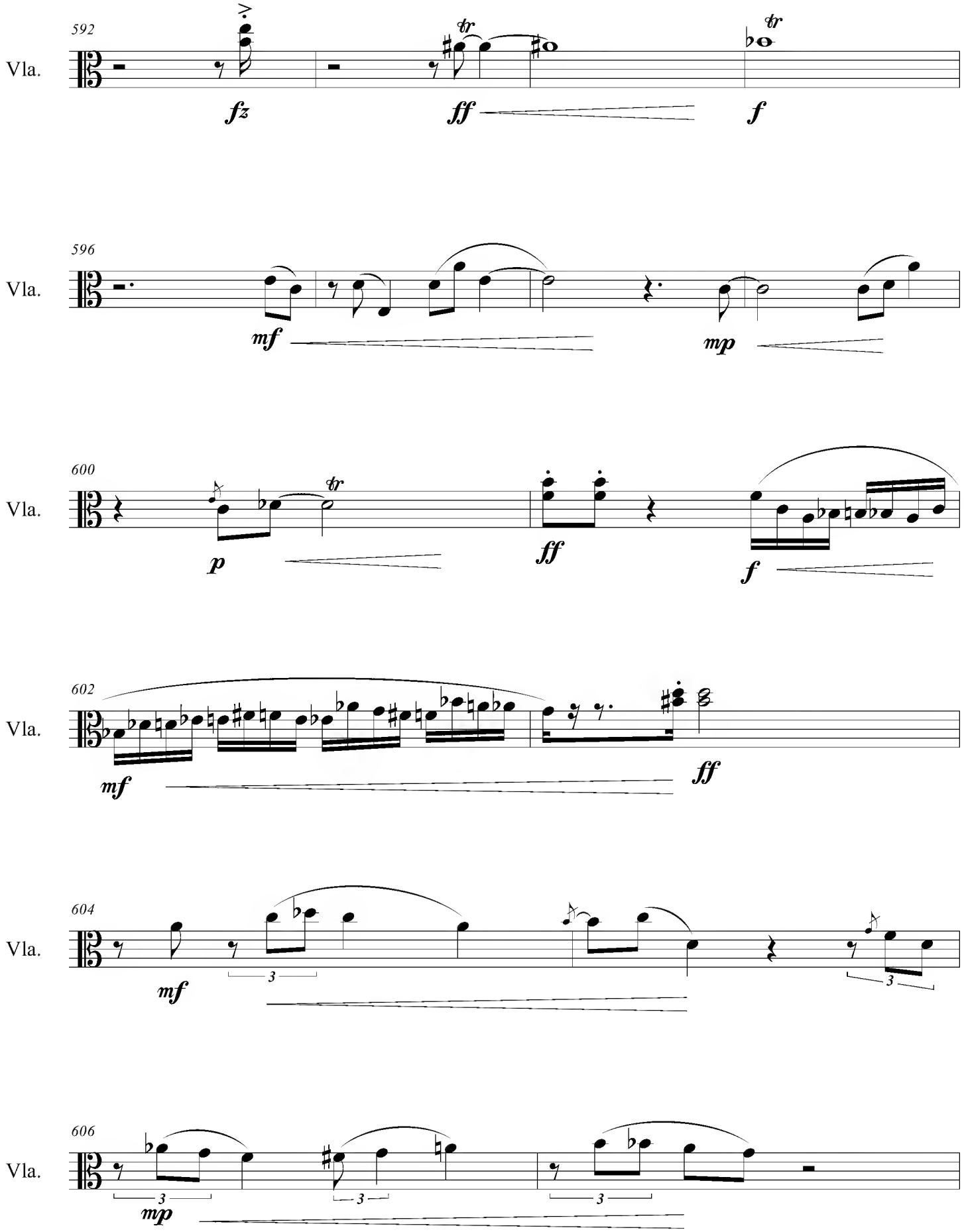

532
Vla.
ff
fff
534
Vla.
f
mf
536
Vla.
ff
ff
fff
538
Vla.
p
mp
540
Vla.
mf
f
542
Vla.
mf
ffff
fz
mp

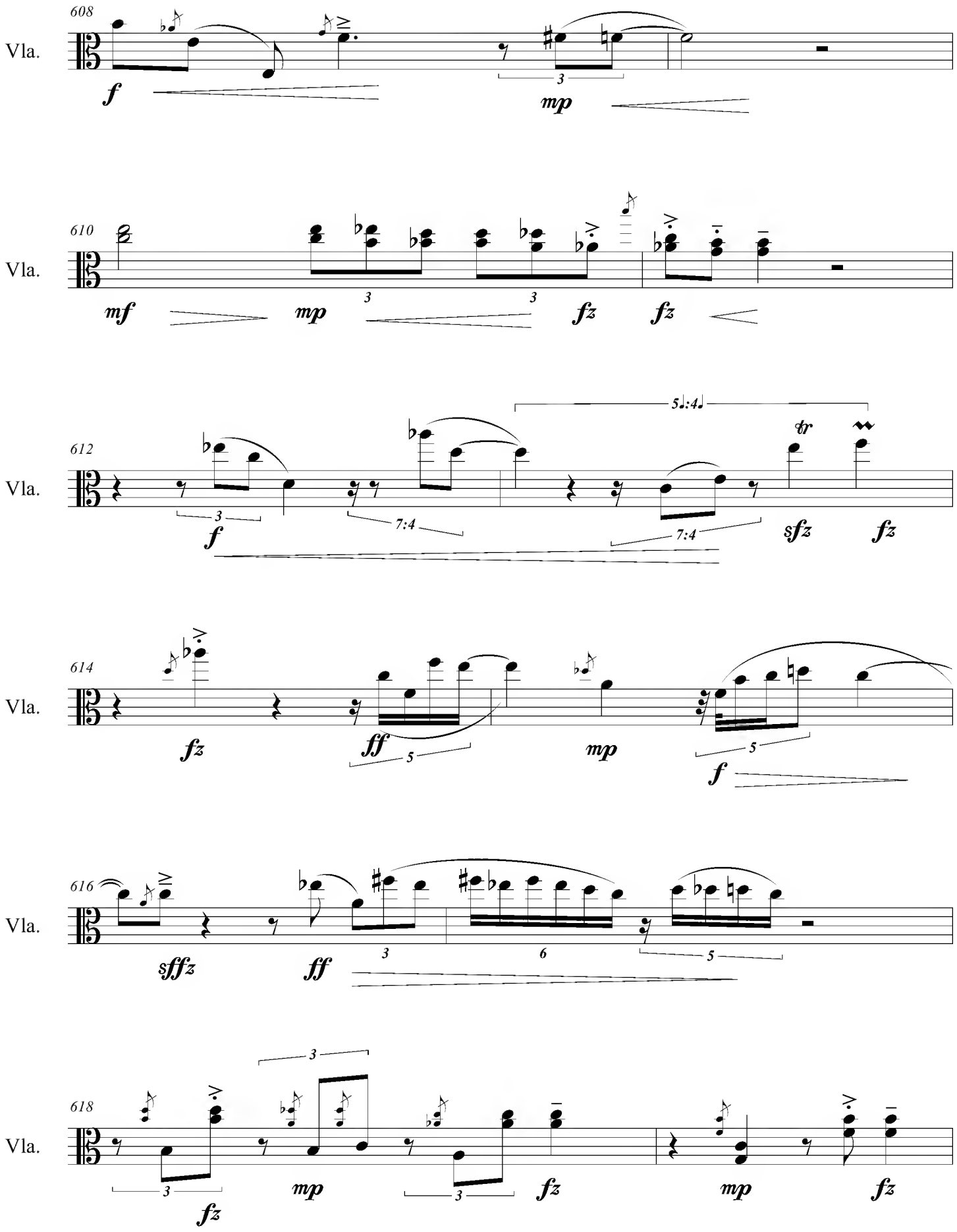

544
Vla.
mp
8:2
7:4
3
ff
546
Vla.
7:4
ff
548
Vla.
tr
mf
550
Vla.
ff
552
Vla.
V
fff
3:2
554
Vla.
f

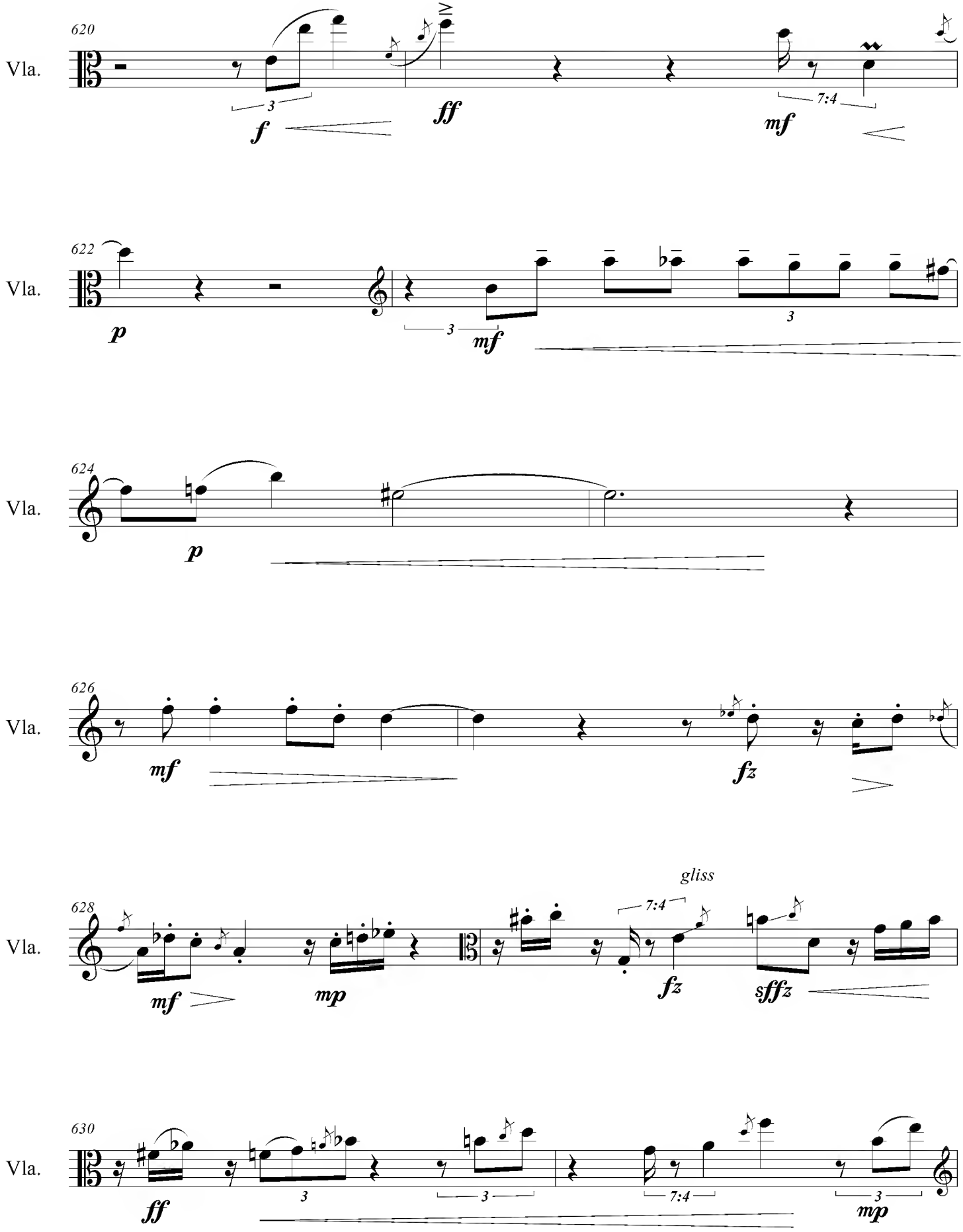

556
Vla.
f
558
Vla.
ff
fz
sfz
560
Vla.
mf
f
562
Vla.
mf
ff
564
Vla.
f
ff
566
Vla.
mf
fff

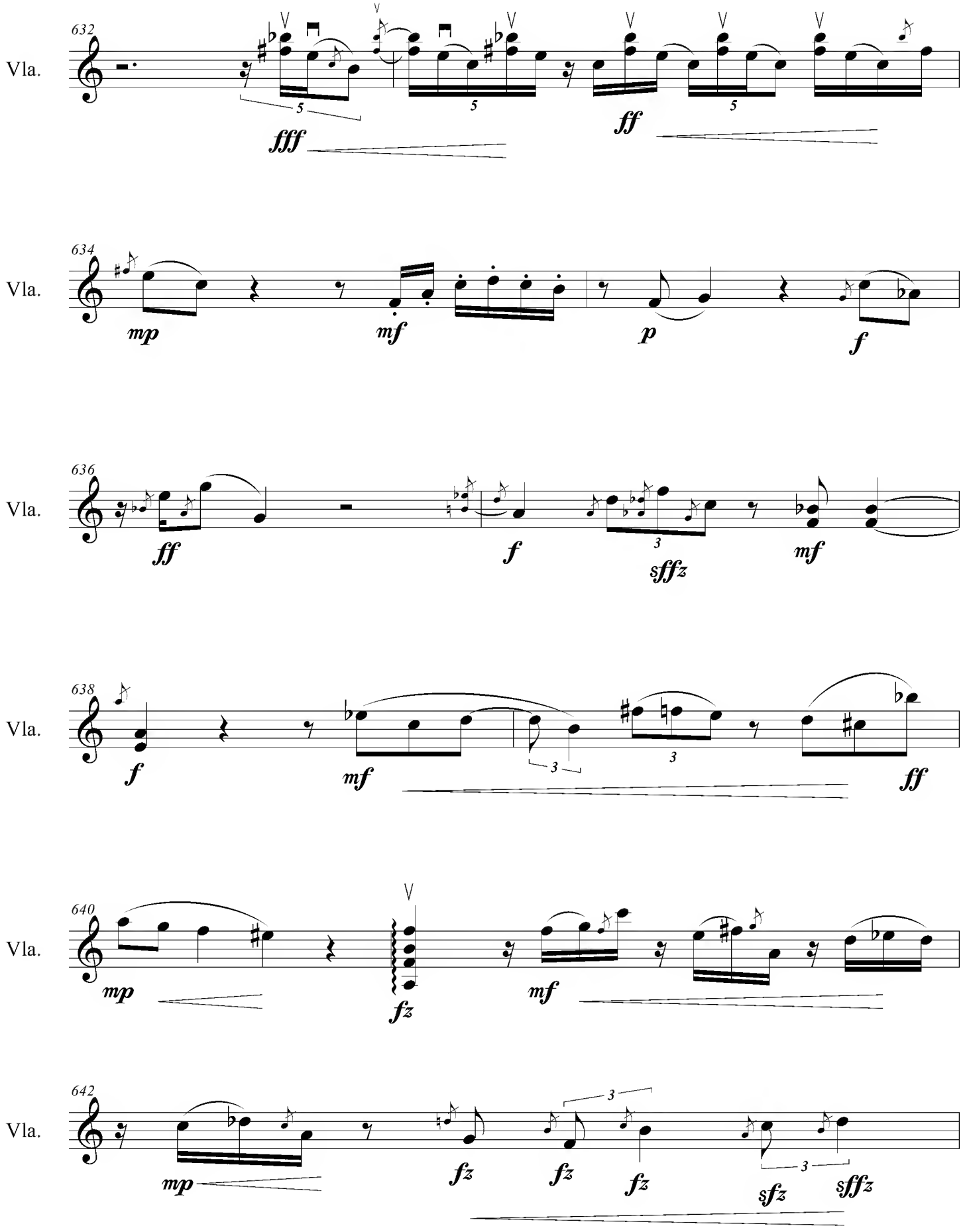

568
Vla.
mp
mf
570
Vla.
f
mf
572
Vla.
ff
574
Vla.
Sul C e G
5:4
3
f
sffz
576
Vla.
mp
mf
578
Vla.
ff
7:4
3
7:4

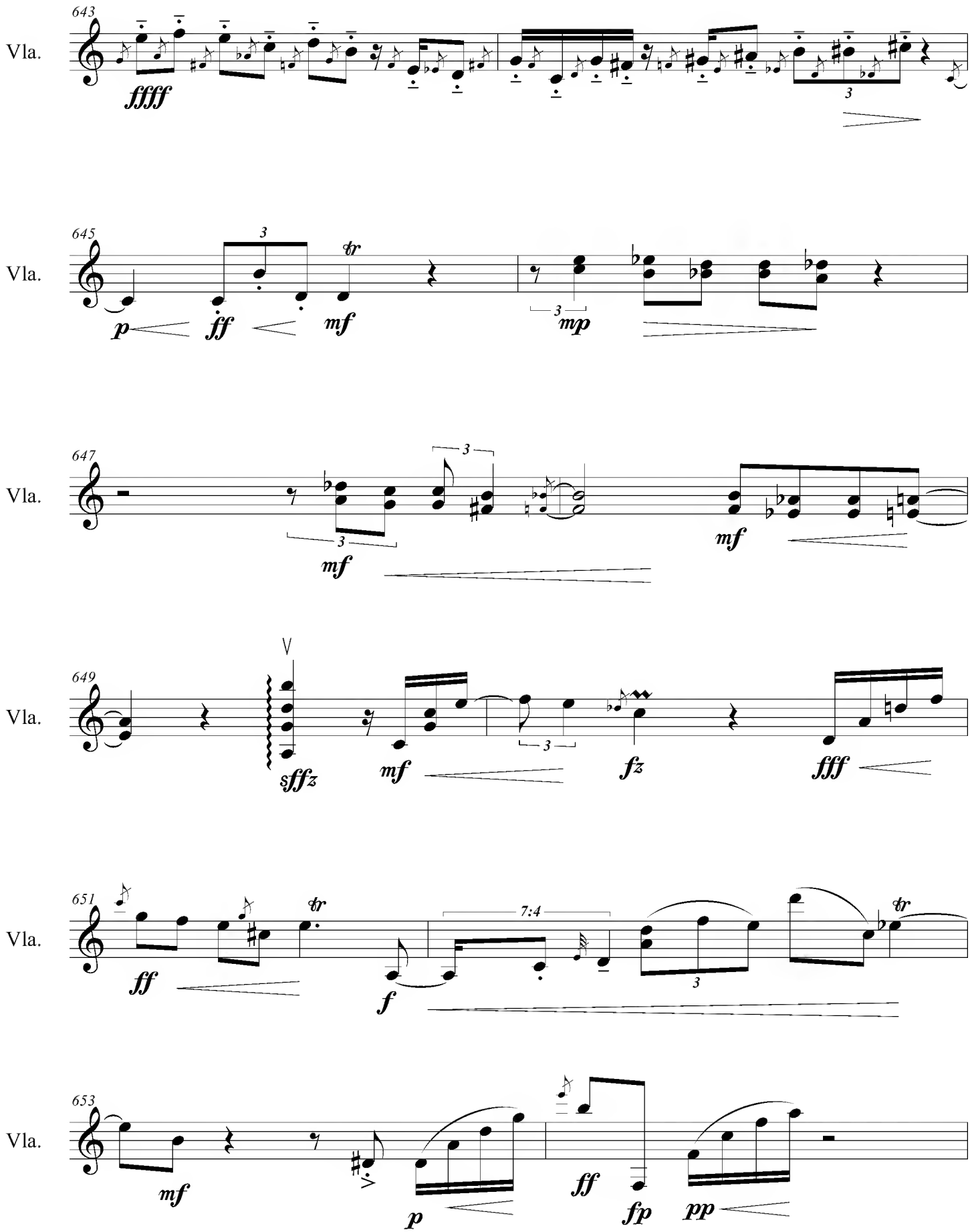

580
Vla.
f
ff
mf
fz
mf
582
Vla.
mf
fz
f
584
Vla.
mf
ff
mf
586
Vla.
f
mf
tr
mp
588
Vla.
f
mp
590
Vla.
f
ff
f

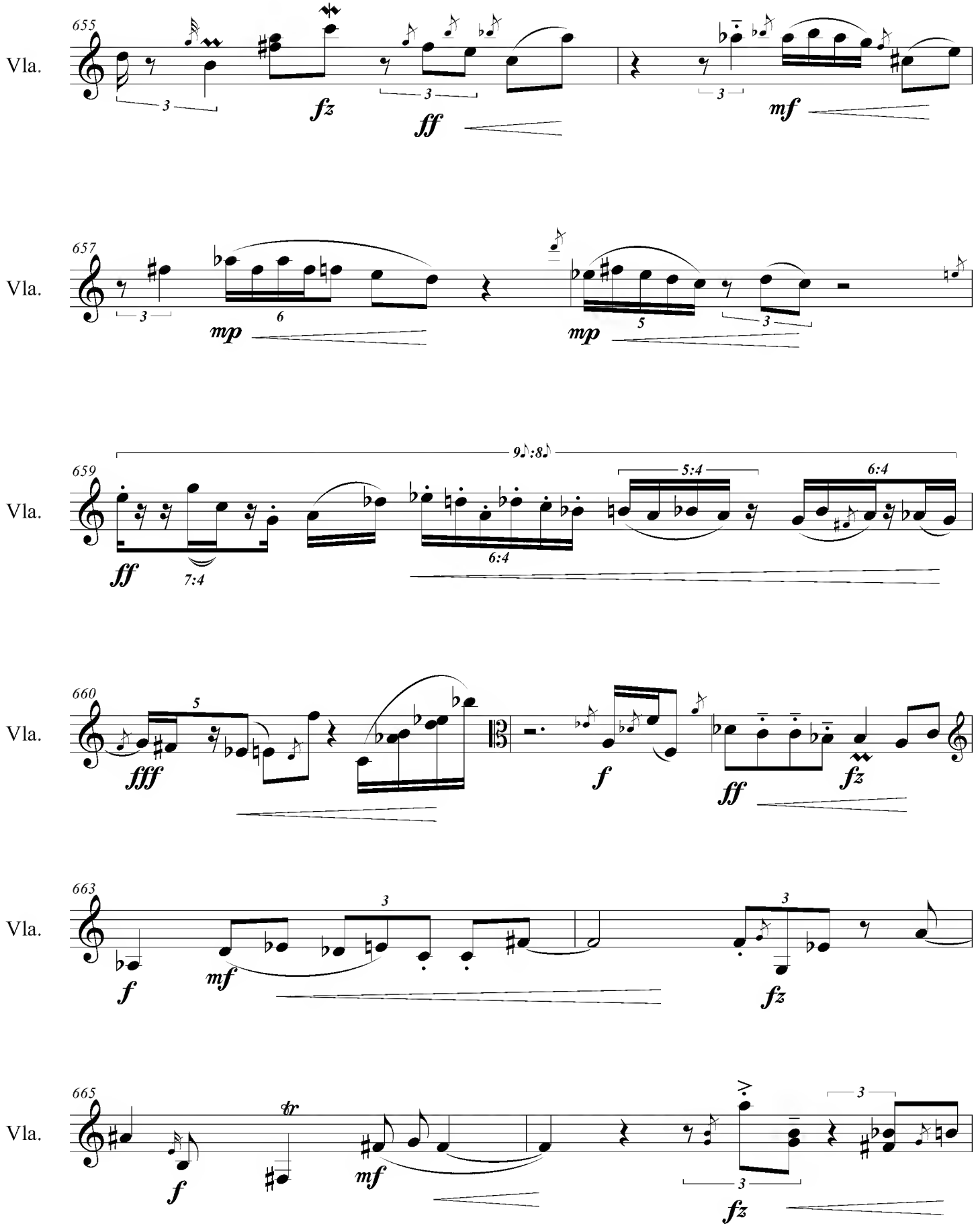

592
Vla.
fz
ff
f
596
Vla.
mf
mp
600
Vla.
p
ff
f
602
Vla.
mf
ff
604
Vla.
mf
3
3
606
Vla.
3
mp
3
3

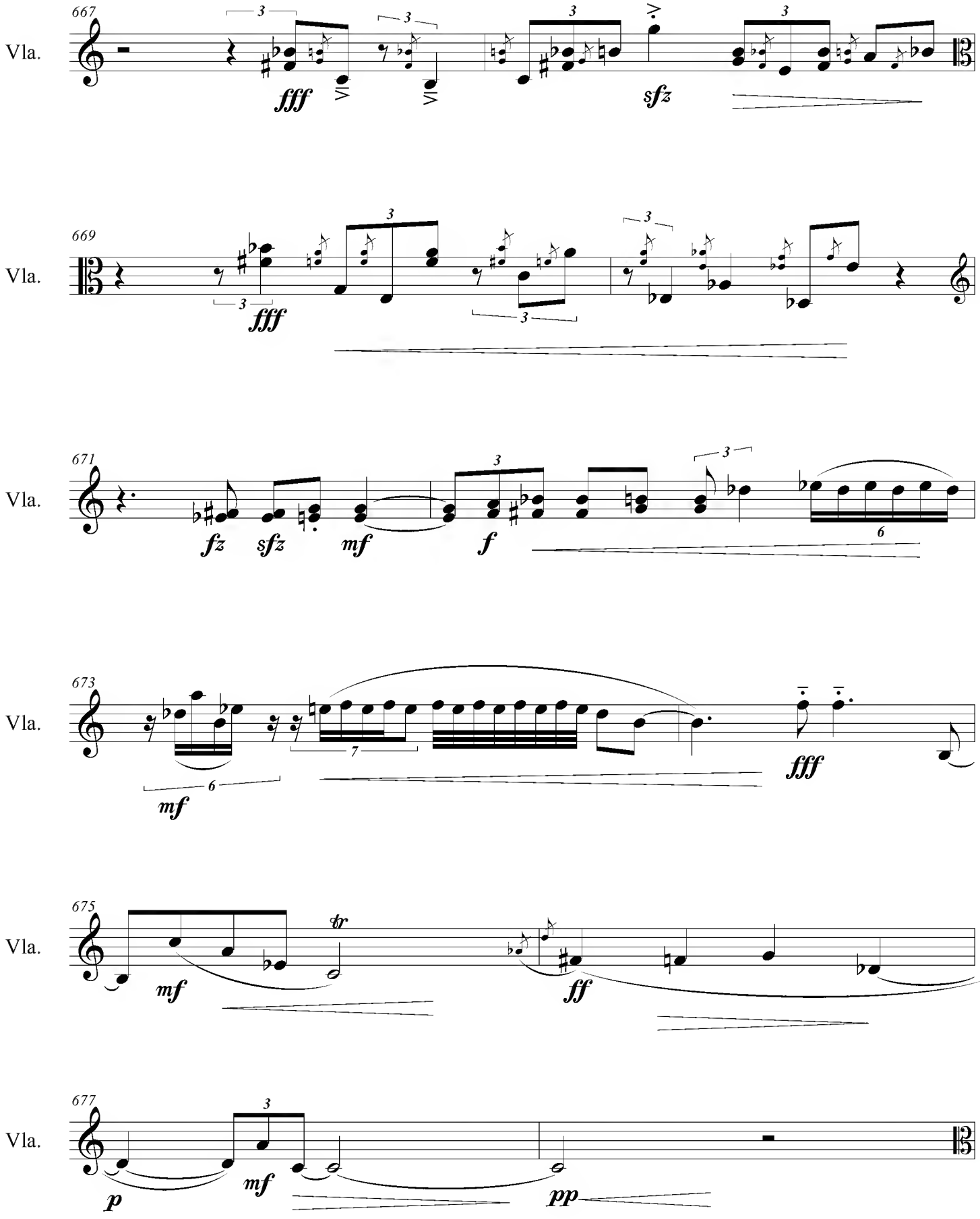

608
Vla.
f
3
mp
610
Vla.
mf
mp
3
3
fz
fz
612
Vla.
5:4
3
f
7:4
7:4
tr
sfz
fz
614
Vla.
fz
ff
5
mp
5
f
616
Vla.
sffz
ff
3
6
5
618
Vla.
3
fz
3
mp
3
fz
mp
fz

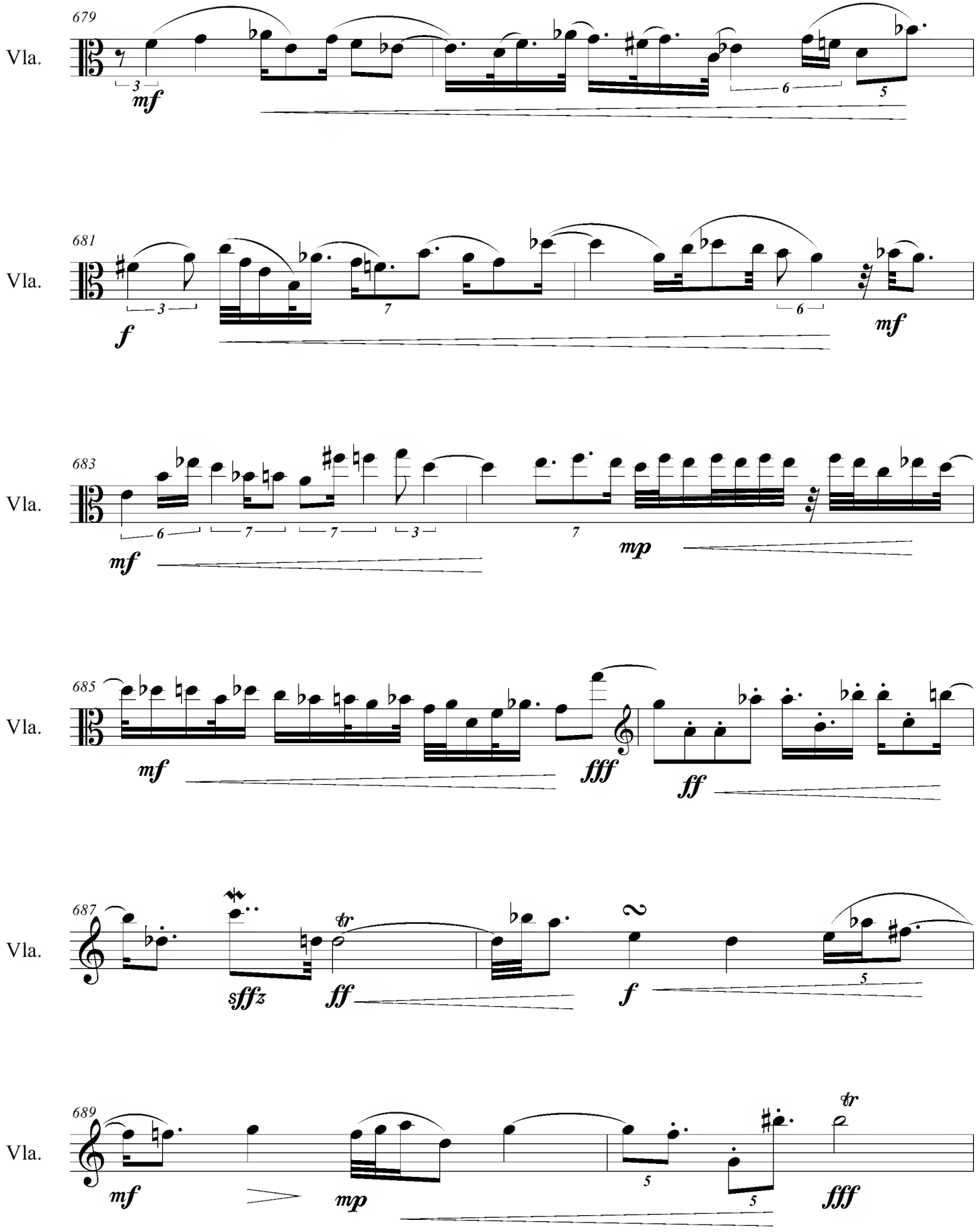

620
Vla.
3
f
ff
7:4
mf
622
Vla.
p
3
mf
3
624
Vla.
p
626
Vla.
mf
fz
628
Vla.
mf
mp
gliss
7:4
fz
sffz
630
Vla.
ff
3
3
7:4
3
mp

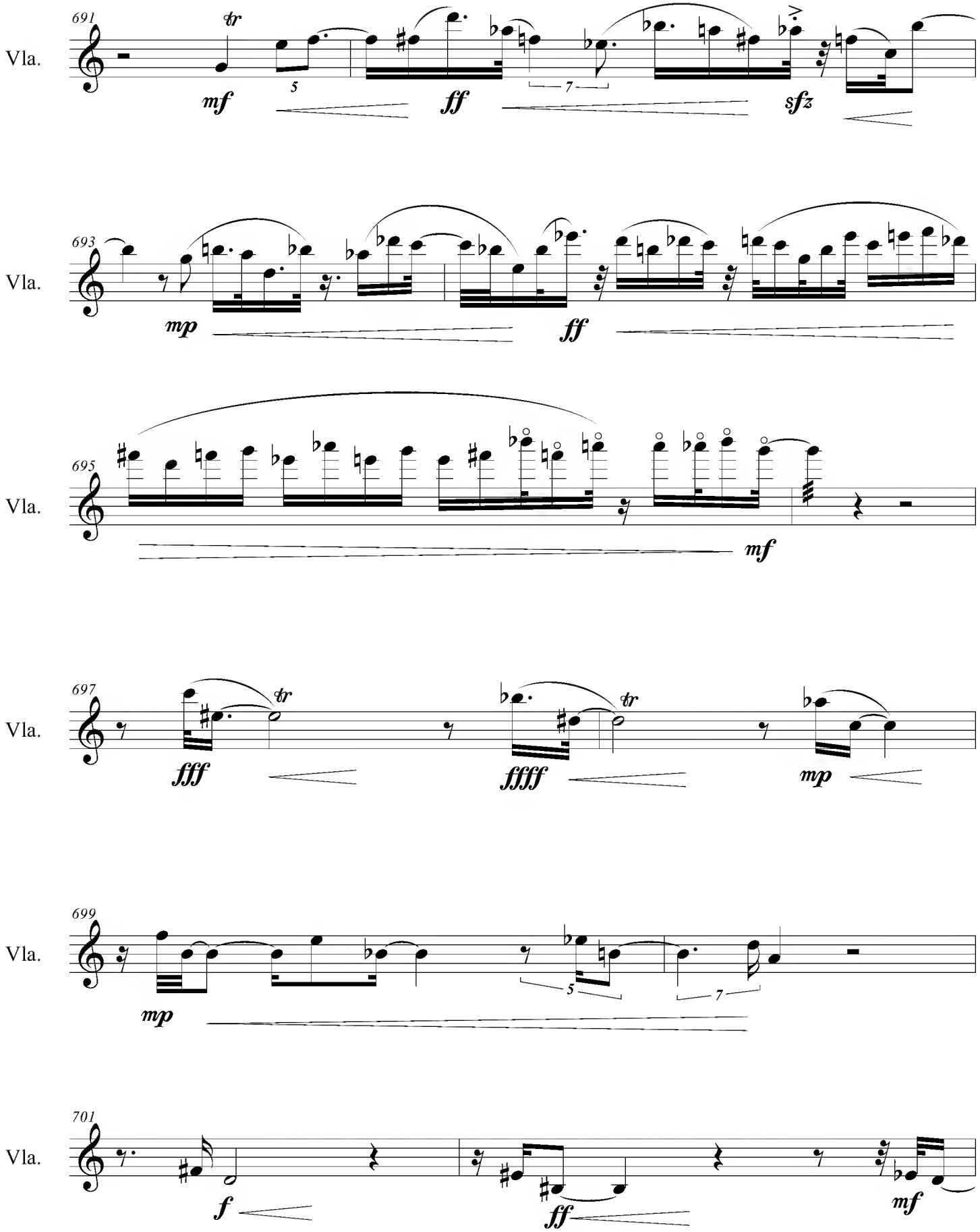

632
Vla.
fff
ff
634
Vla.
mp
mf
p
f
636
Vla.
ff
f
sffz
mf
638
Vla.
f
mf
ff
640
Vla.
mp
fz
mf
642
Vla.
mp
fz
fz
fz
sfz
sffz

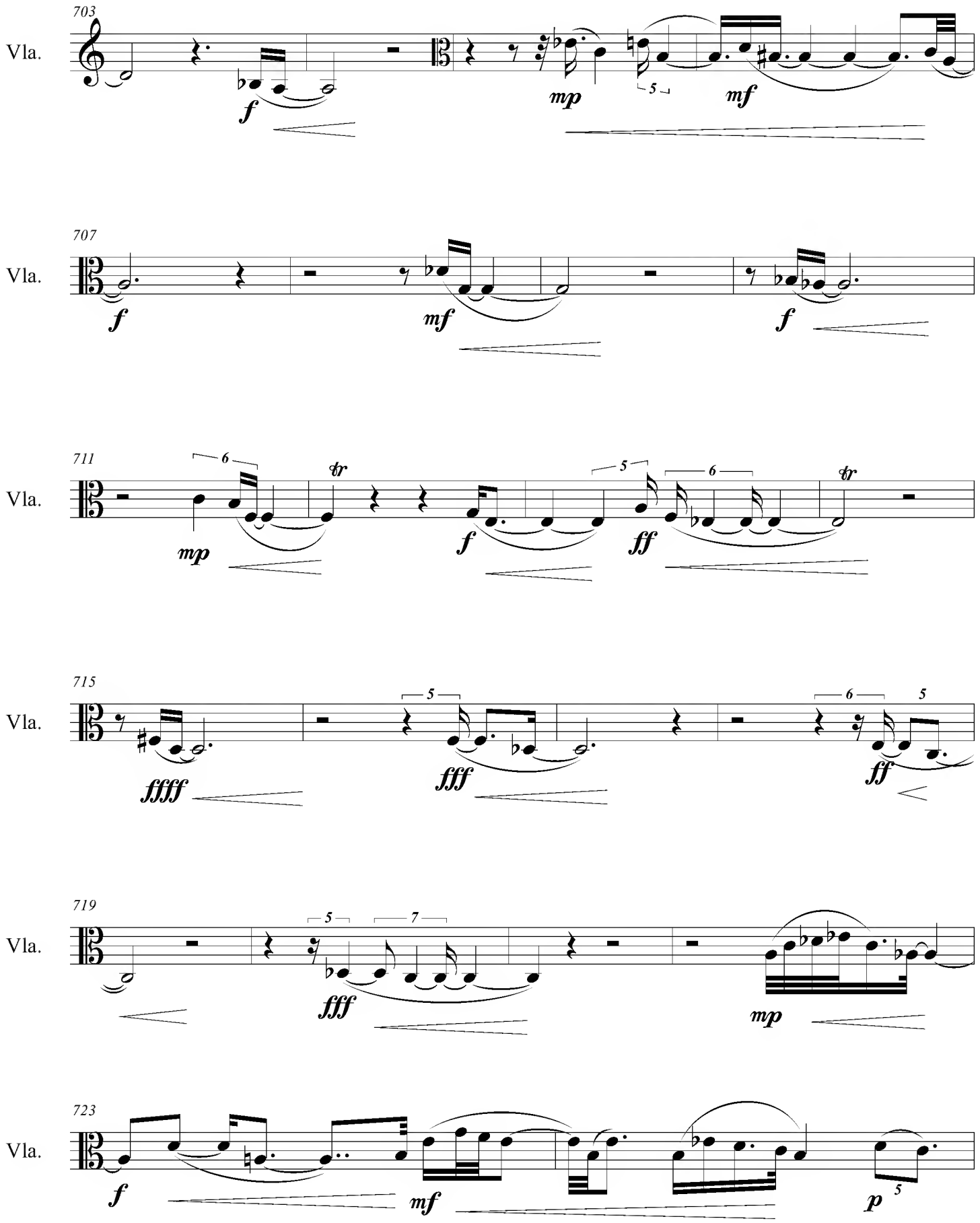

643
Vla.
fffff
3
645
Vla.
p
3
ff
tr
mf
3
mp
647
Vla.
3
3
mf
mf
649
Vla.
V
sffz
mf
3
fz
fff
651
Vla.
ff
tr
f
7:4
3
tr
653
Vla.
mf
p
ff
fp
pp

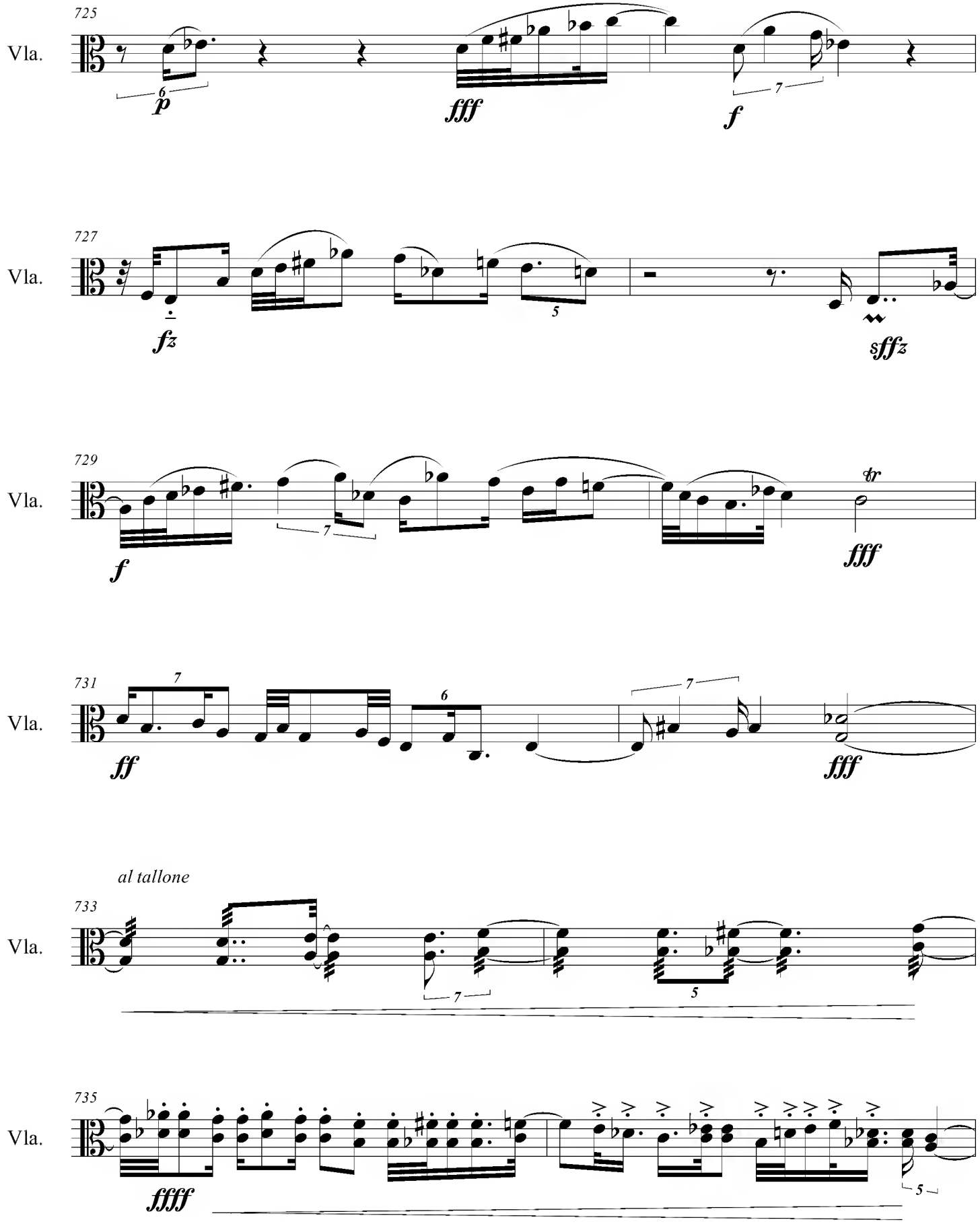

655
Vla.
fz
ff
mf
657
Vla.
mp
mp
659
Vla.
9♪:8♪
5:4
6:4
6:4
ff
7:4
660
Vla.
fff
f
ff
fz
663
Vla.
f
mf
fz
665
Vla.
tr
f
mf
fz

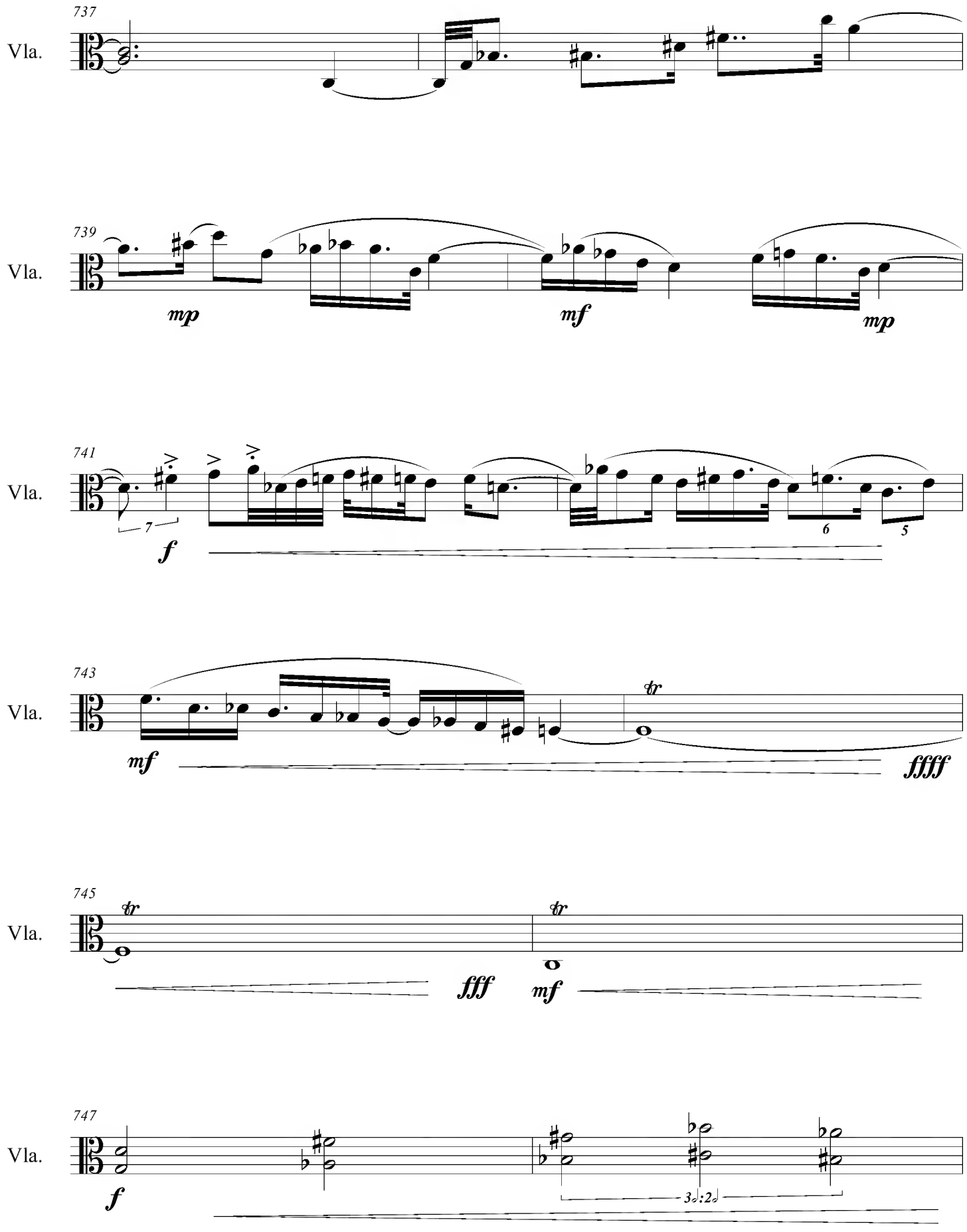

667
Vla.
fff
sfz
669
Vla.
fff
671
Vla.
fz
sfz
mf
f
673
Vla.
mf
fff
675
Vla.
mf
tr
ff
677
Vla.
p
mf
pp

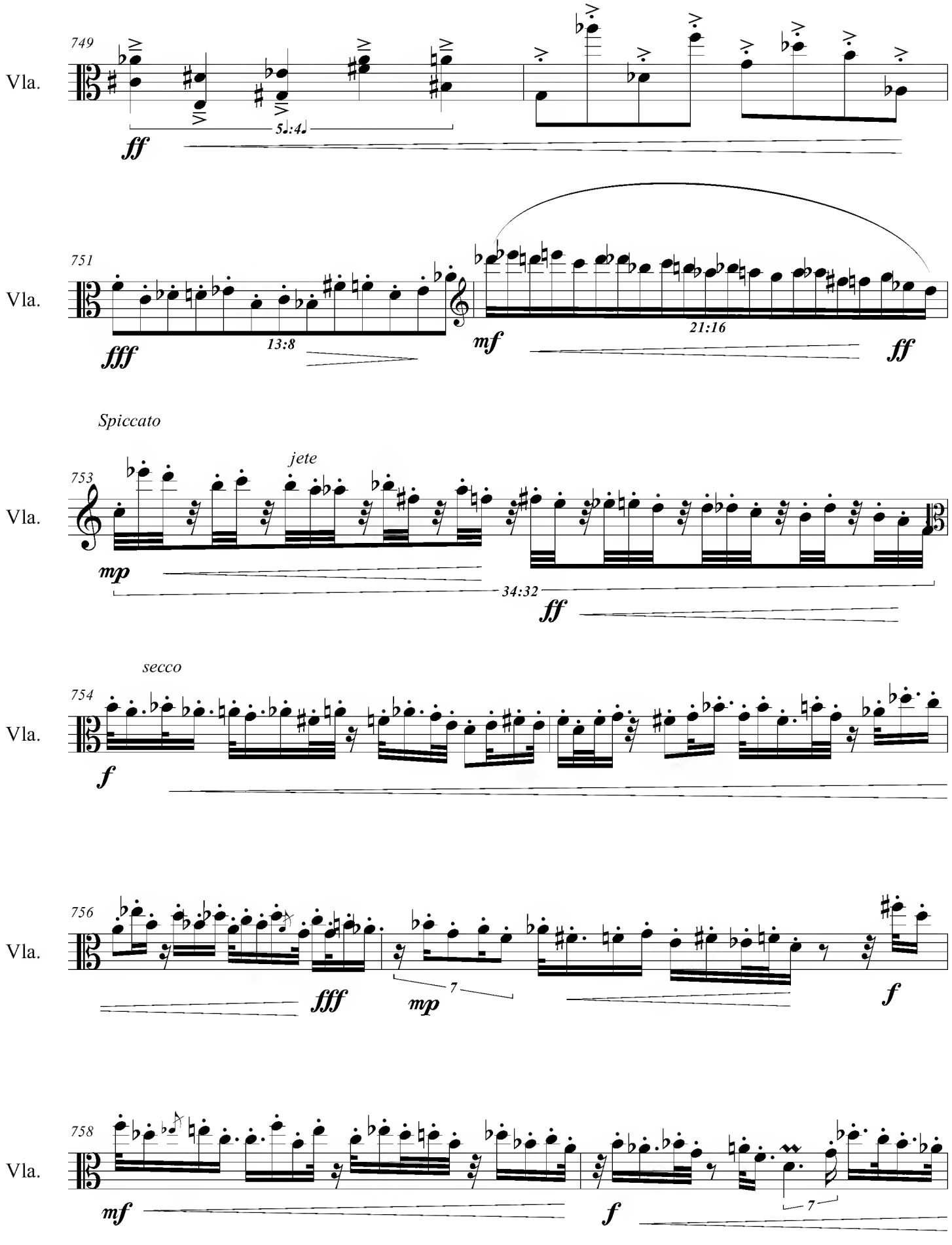

679
Vla.
mf
681
Vla.
f
mf
683
Vla.
mf
mp
685
Vla.
mf
fff
ff
687
Vla.
sffz
ff
f
689
Vla.
mf
mp
fff

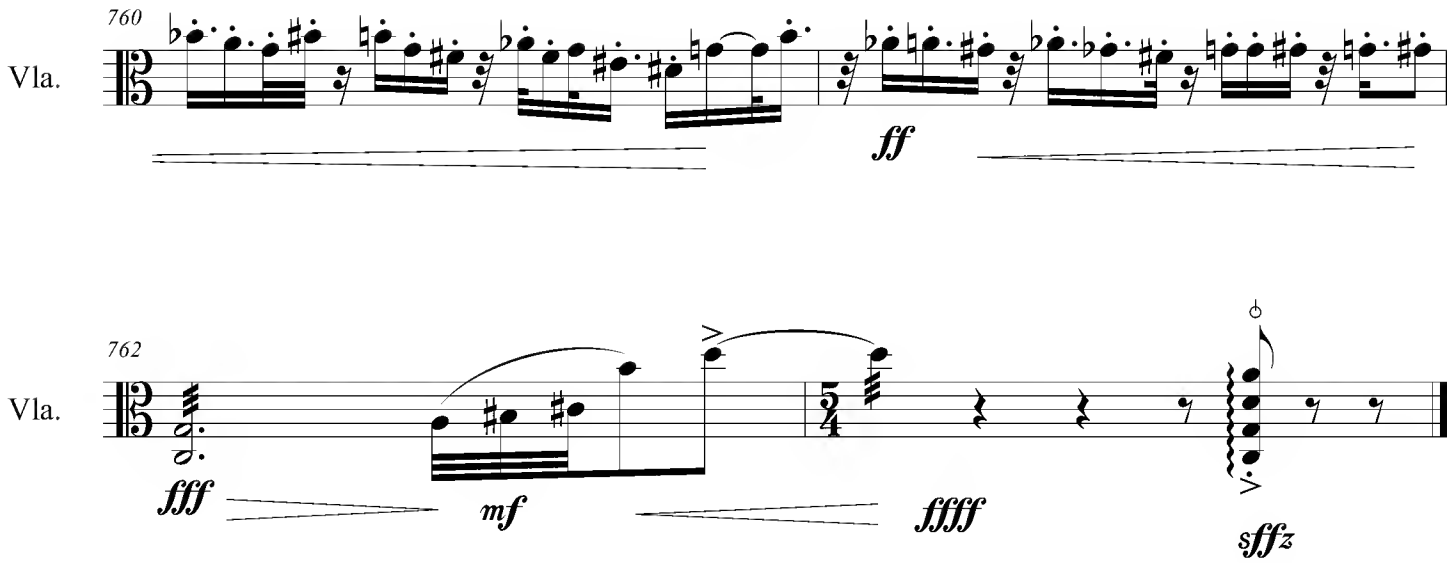

691
Vla.
tr
mf
5
ff
7
sfz
693
Vla.
mp
ff
695
Vla.
mf
697
Vla.
tr
fff
tr
ffff
mp
699
Vla.
mp
5
7
701
Vla.
f
ff
mf


703
Vla.
f
mp
mf
707
Vla.
f
mf
f
711
Vla.
mp
f
ff
715
Vla.
ffff
fff
ff
719
Vla.
fff
mp
723
Vla.
f
mf
p


725
Vla.
p
fff
f
727
Vla.
fz
sffz
729
Vla.
f
tr
fff
731
Vla.
ff
fff
al tallone
733
Vla.
735
Vla.
fffff


737
Vla.
739
Vla.
mp
mf
mp
741
Vla.
7
f
6
5
743
Vla.
mf
tr
ffff
745
Vla.
tr
tr
fff
mf
747
Vla.
f
3:2


749
Vla.
5♩:4♩
ff
751
Vla.
fff
13:8
mf
21:16
ff
Spiccato
753
Vla.
jete
mp
34:32
ff
secco
754
Vla.
f
756
Vla.
fff
mp
7
f
758
Vla.
mf
f
7


760
Vla.
ff

762
Vla.
fff
mf
ffff
sffz

Part IV; "root 2"

String Quartet IV

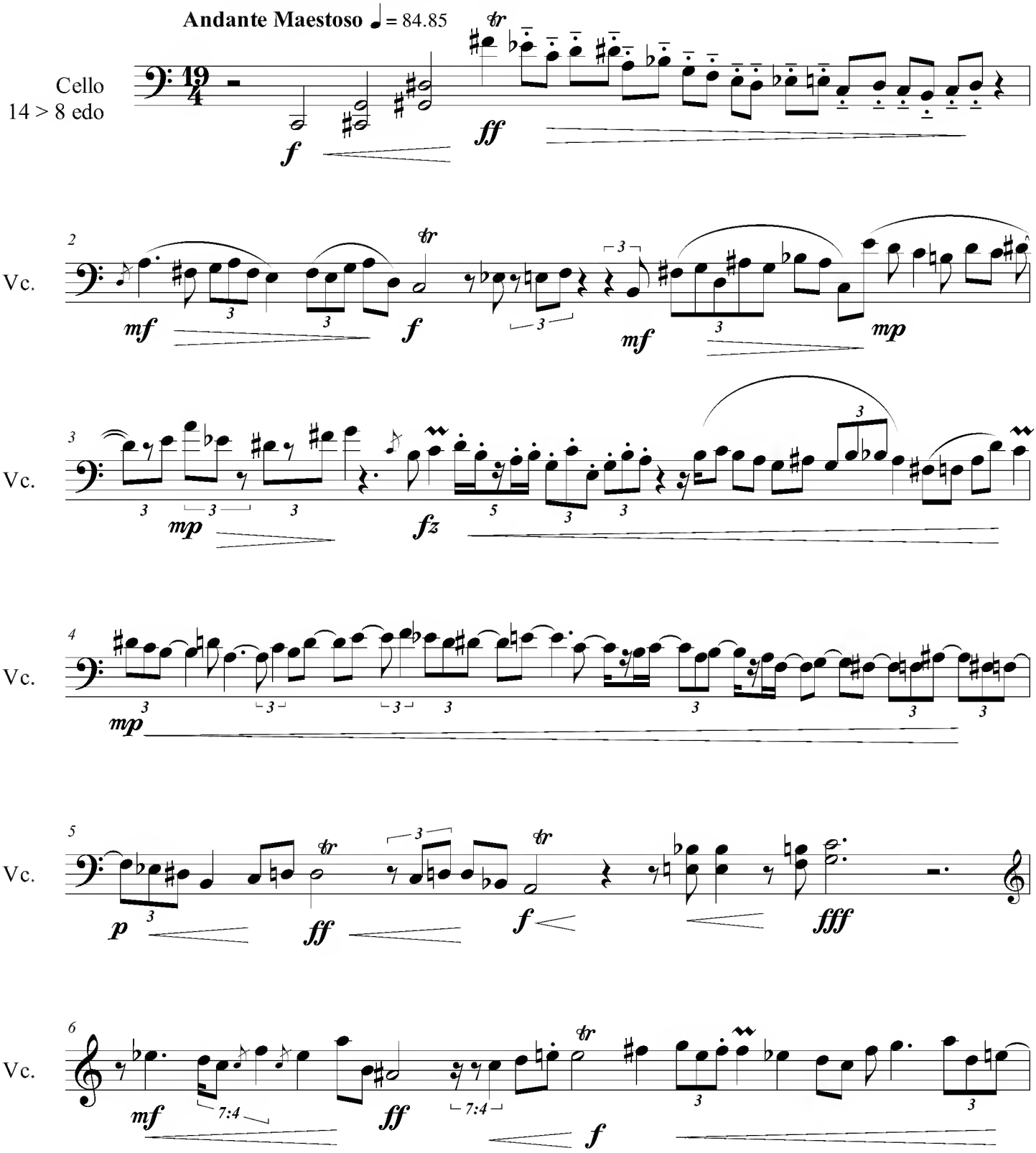
No Vibrato

Irrational

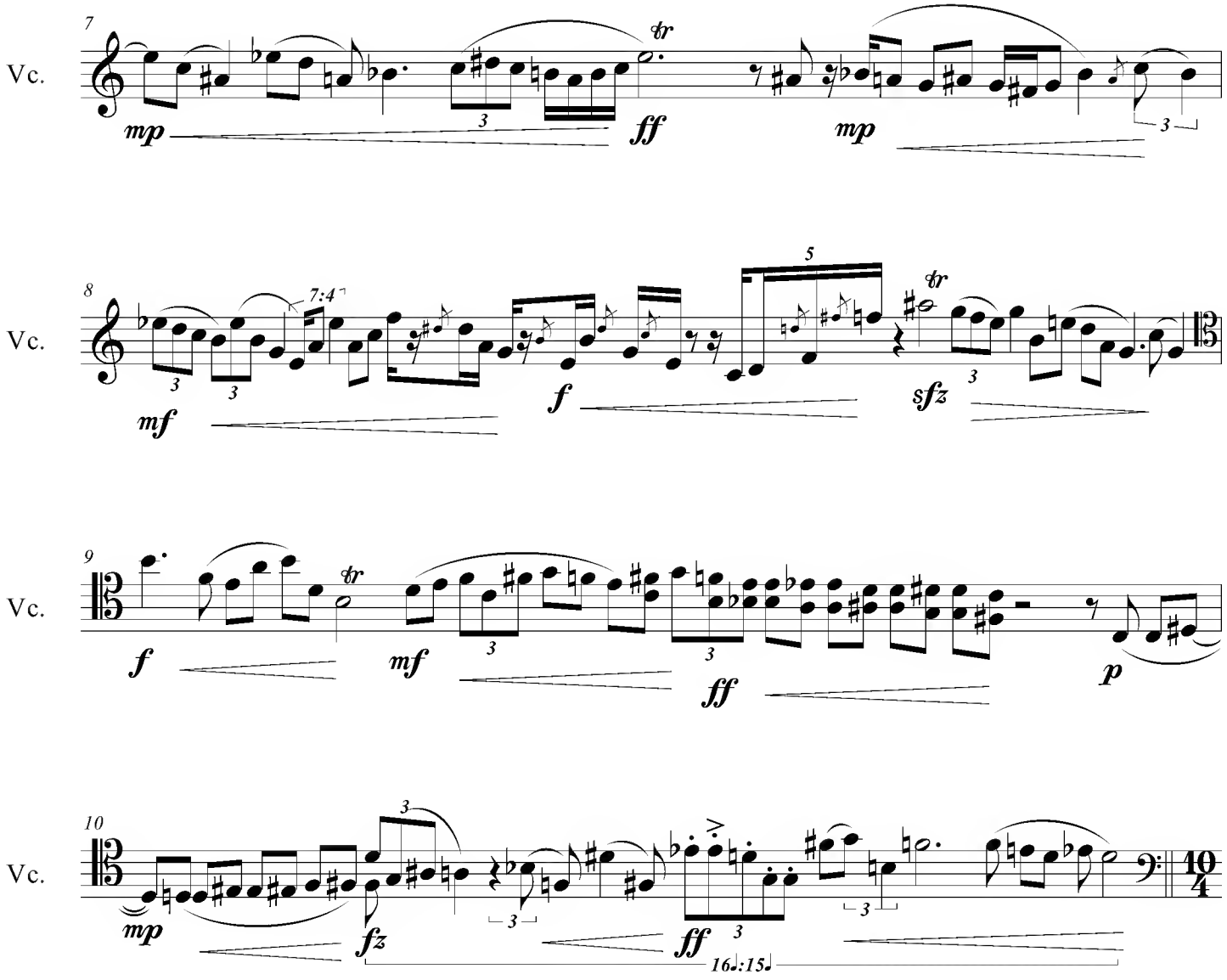
Peter Thoegersen

please see legend for tuning and note assignments

Andante Maestoso ♩ = 84.85

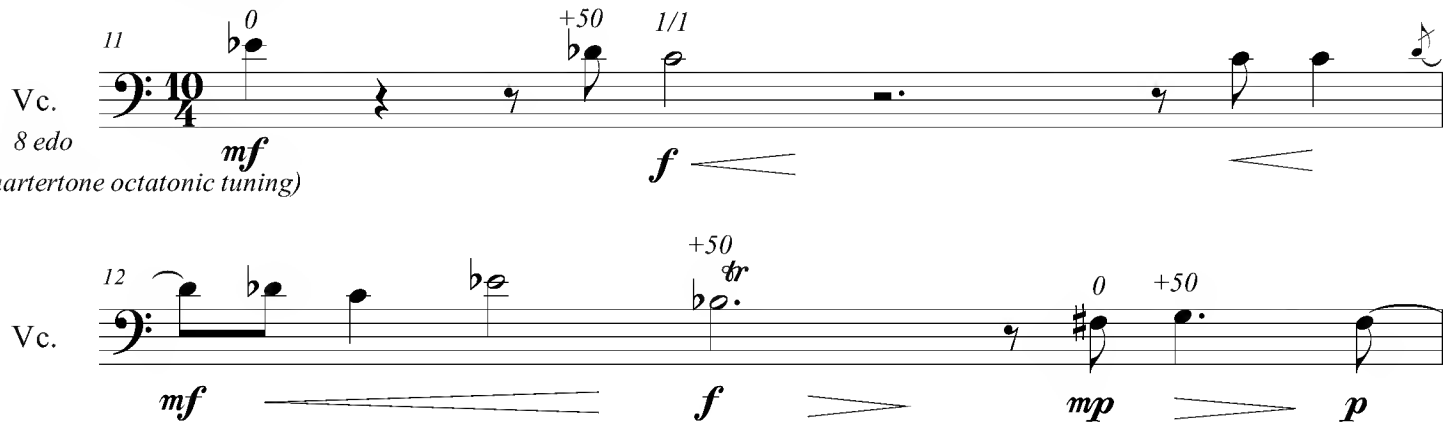


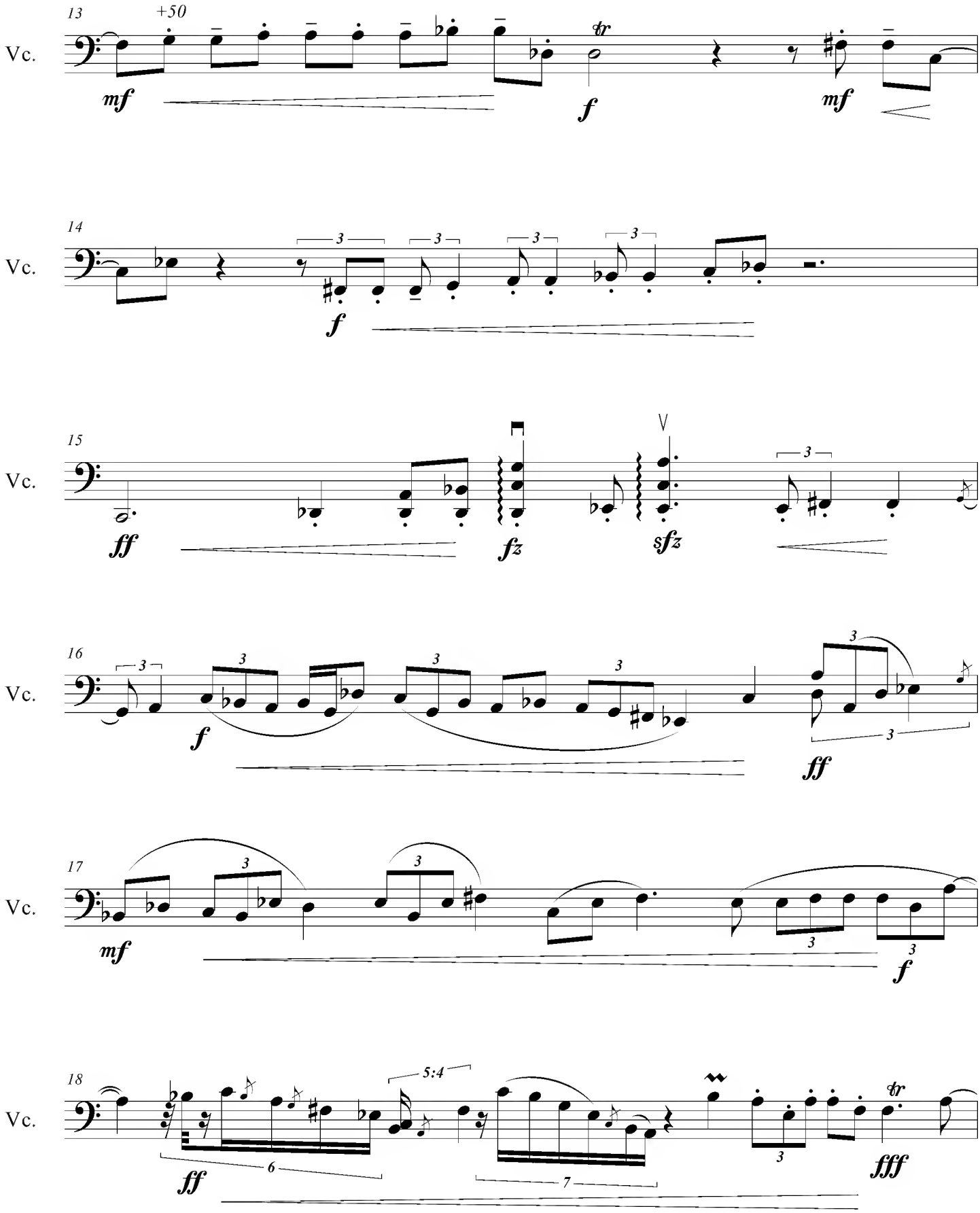
©2018

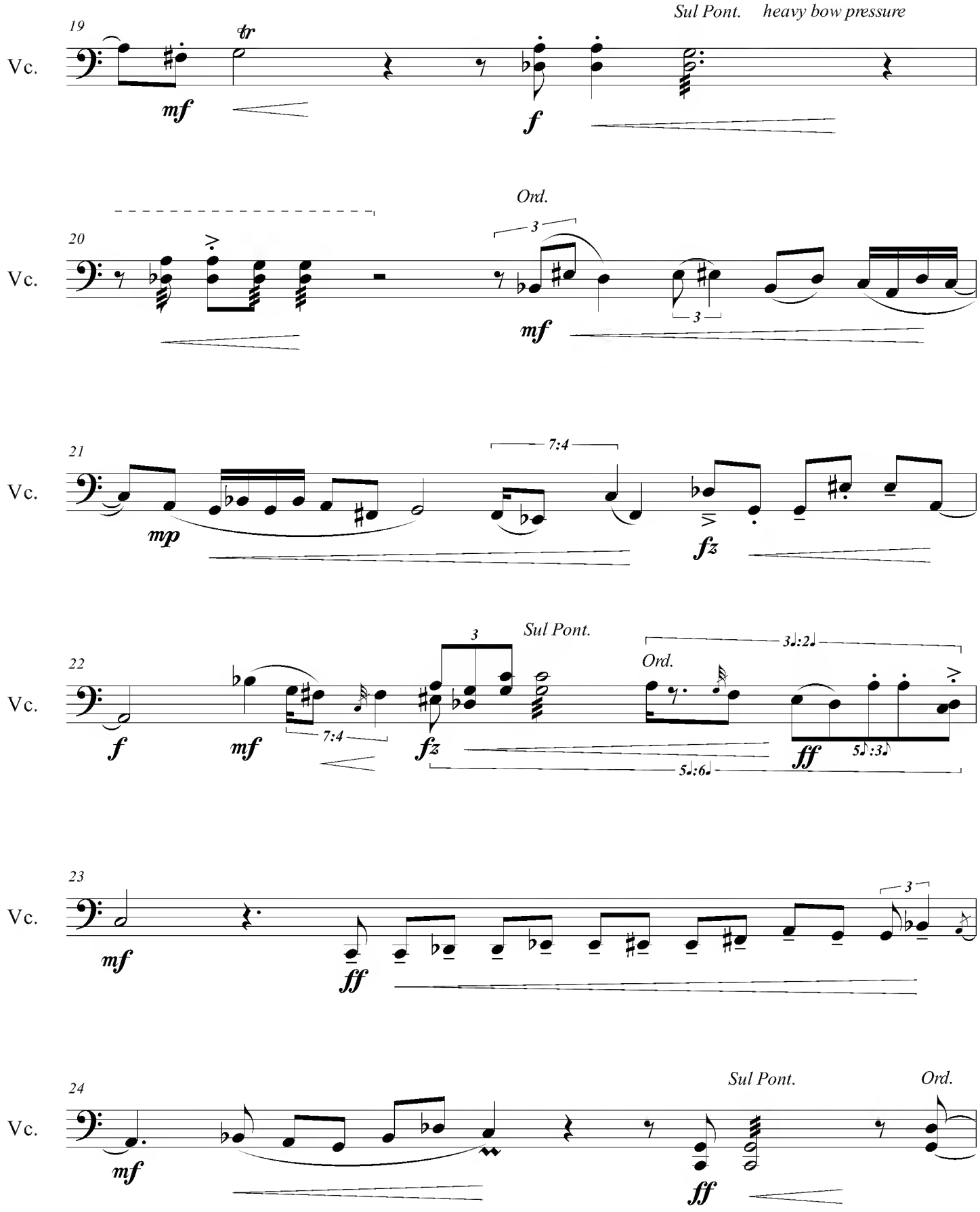


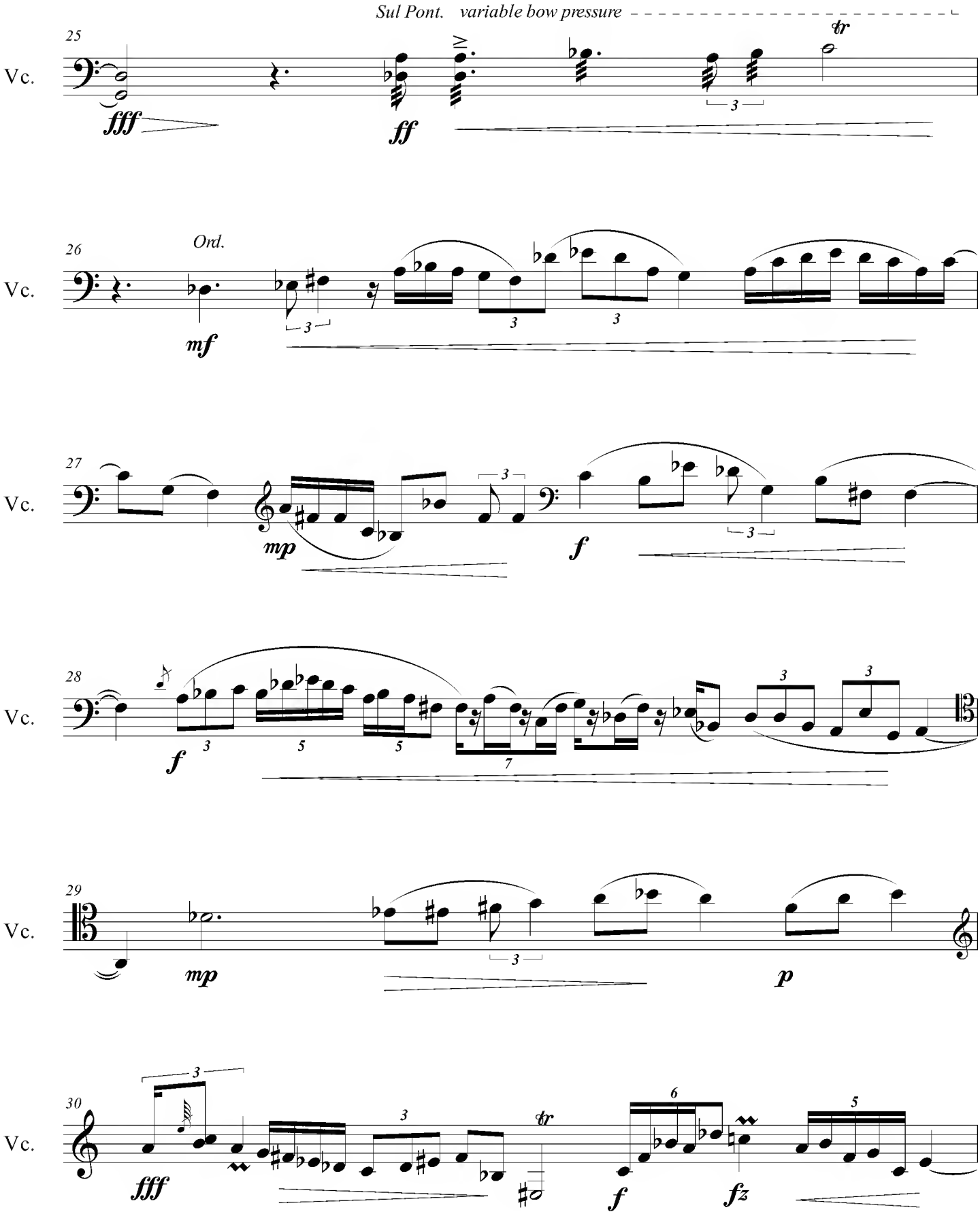
please see legend for tuning and note assignments

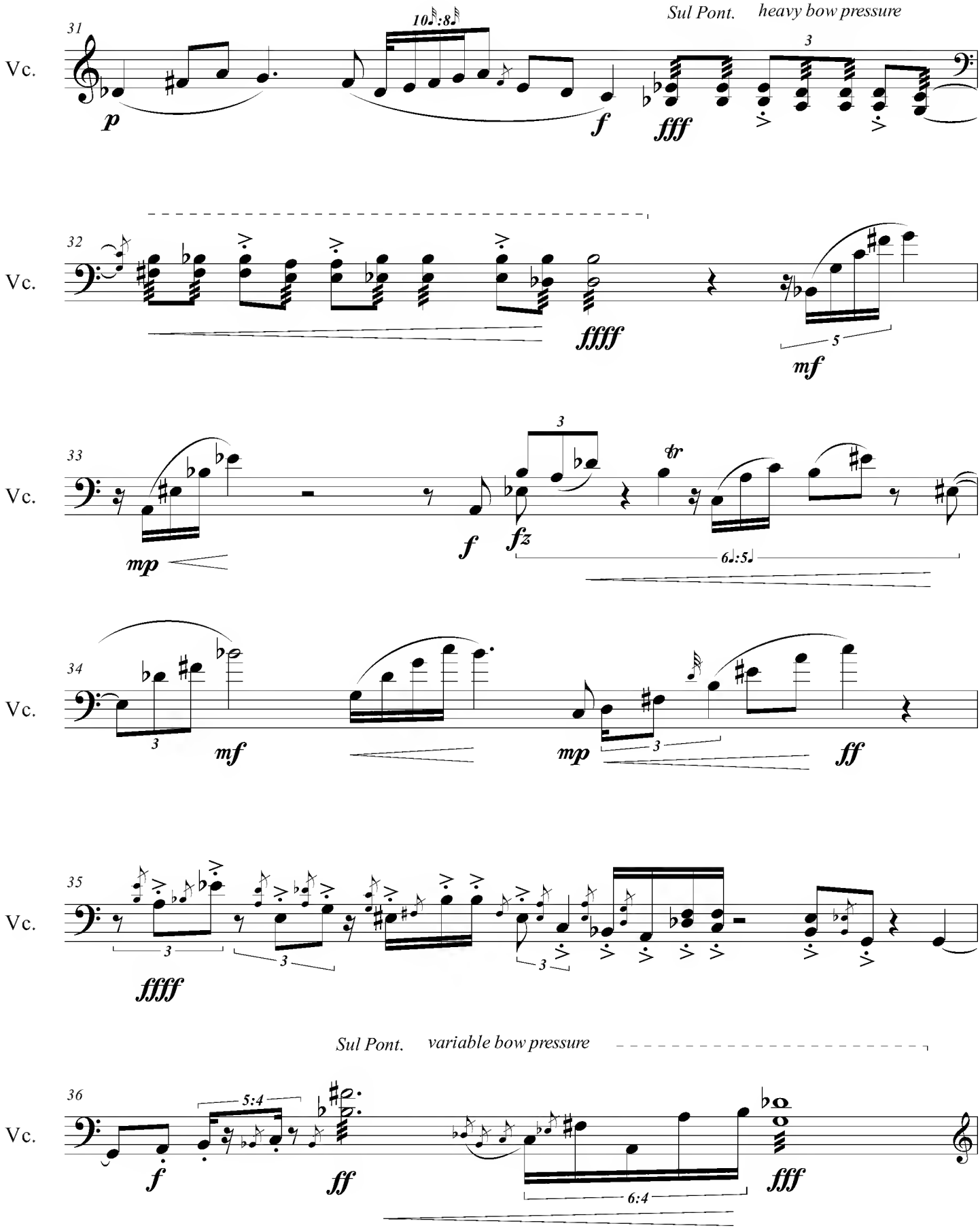
Moderato ♩ = 92.6

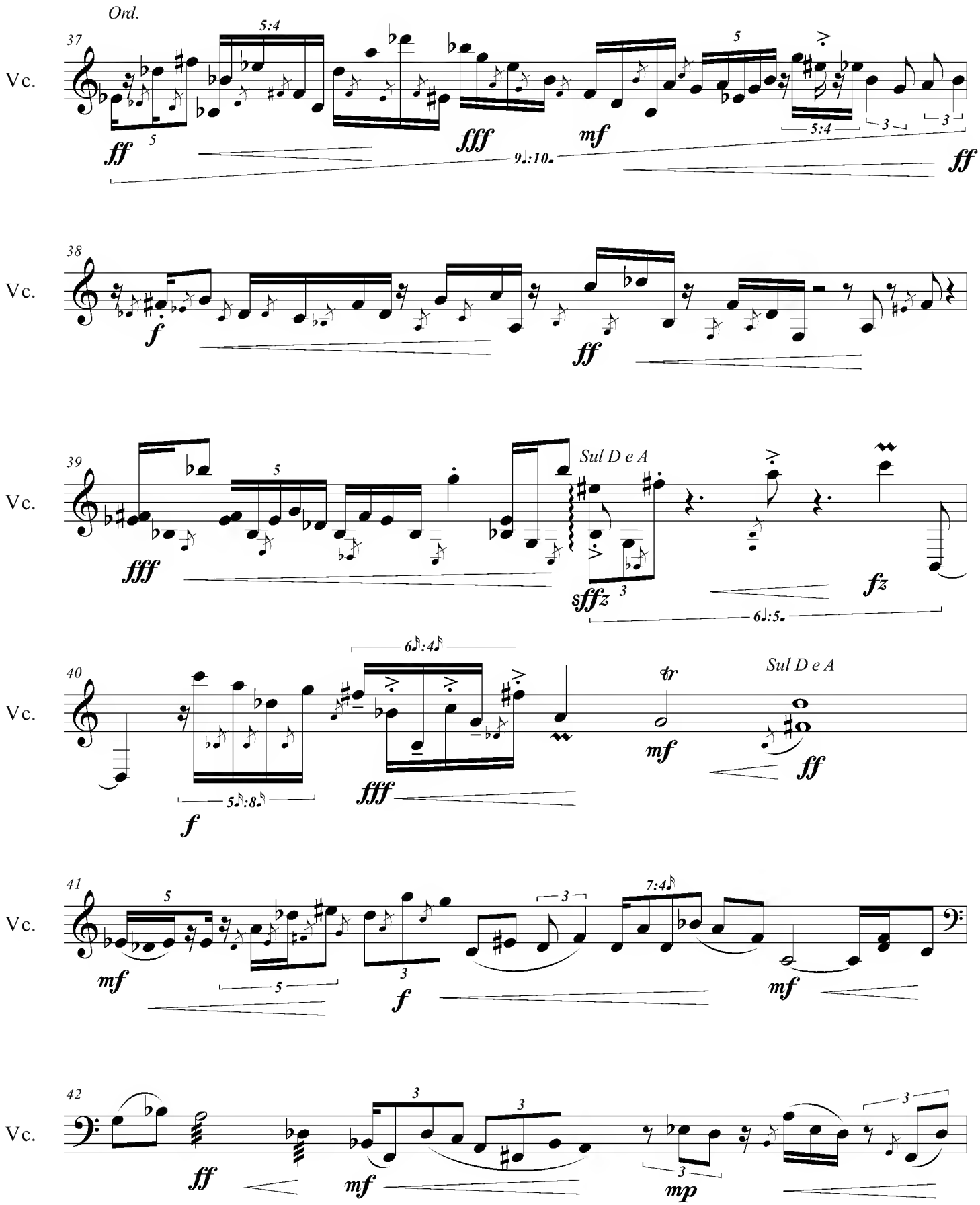


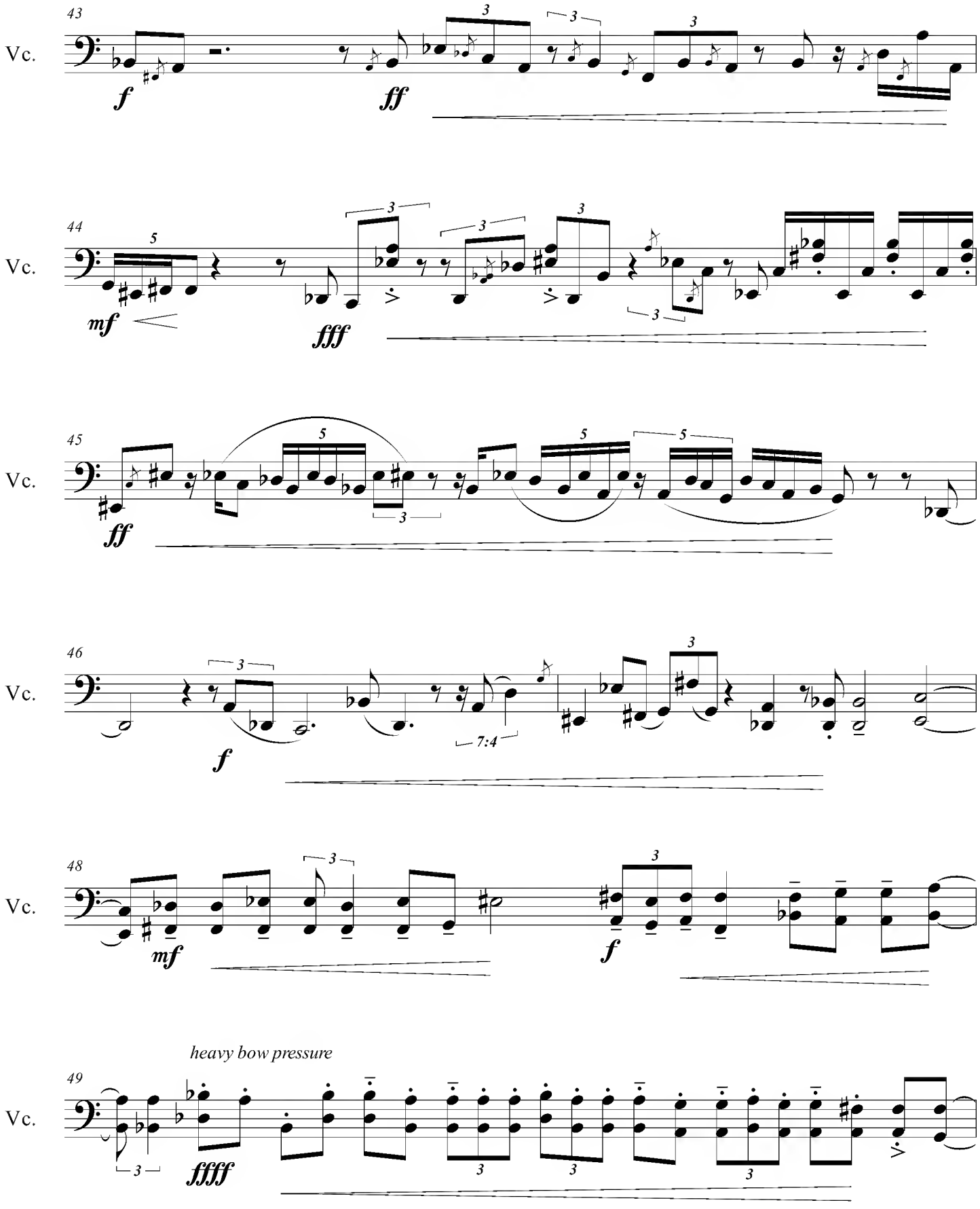

13
+50
Vc.
mf
f
mf
14
Vc.
f
15
Vc.
ff
fz
sfz
16
Vc.
f
ff
17
Vc.
mf
f
18
Vc.
5:4
ff
6
7
fff

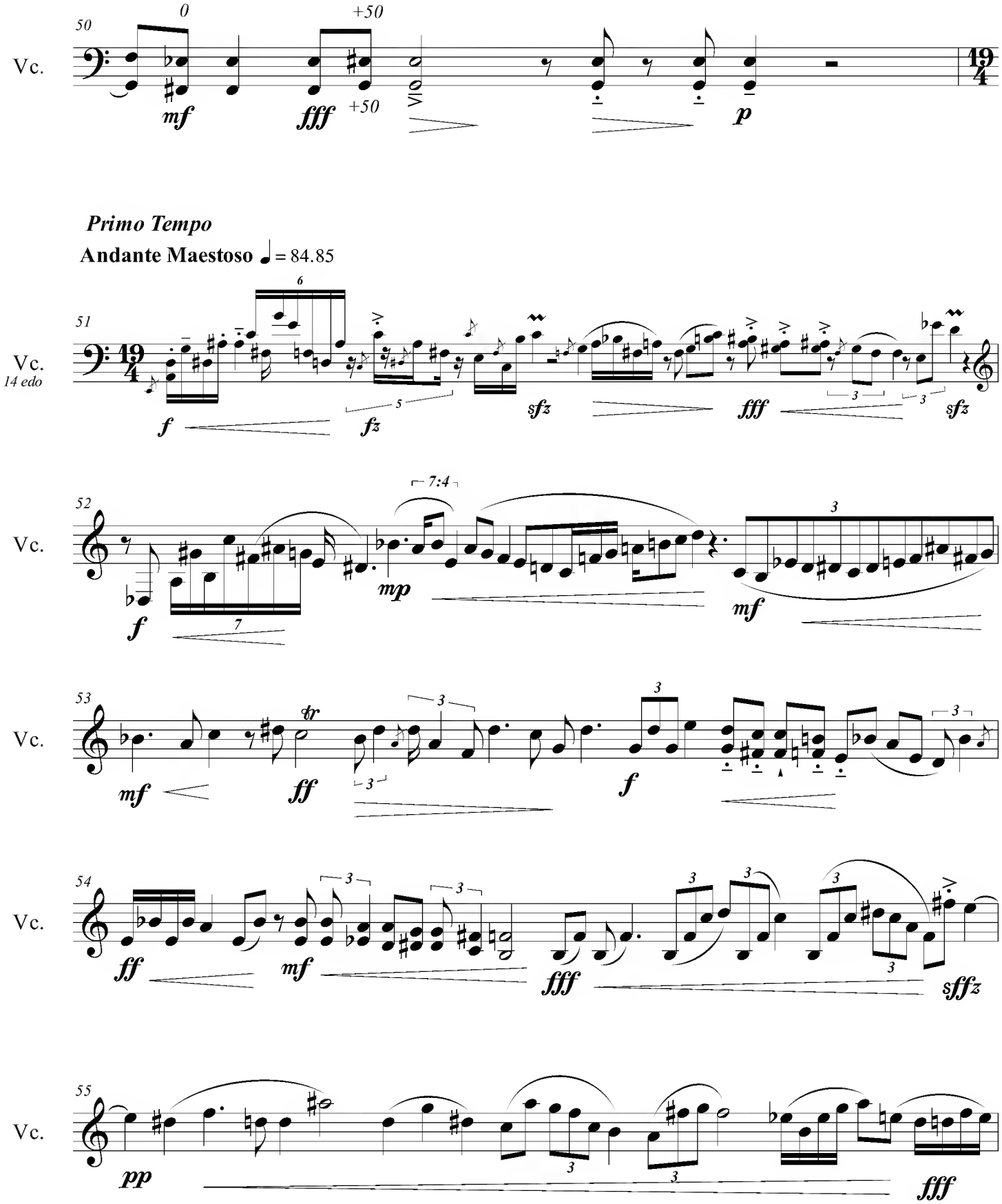

19
Vc.
tr
mf
f
Sul Pont. heavy bow pressure
20
Vc.
Ord.
3
mf
3
21
Vc.
7:4
mp
fz
22
Vc.
f
mf
7:4
3
fz
Sul Pont.
Ord.
3♩:2♩
ff
5♪:3♪
5♩:6♩
23
Vc.
mf
ff
3
24
Vc.
mf
Sul Pont.
ff
Ord.

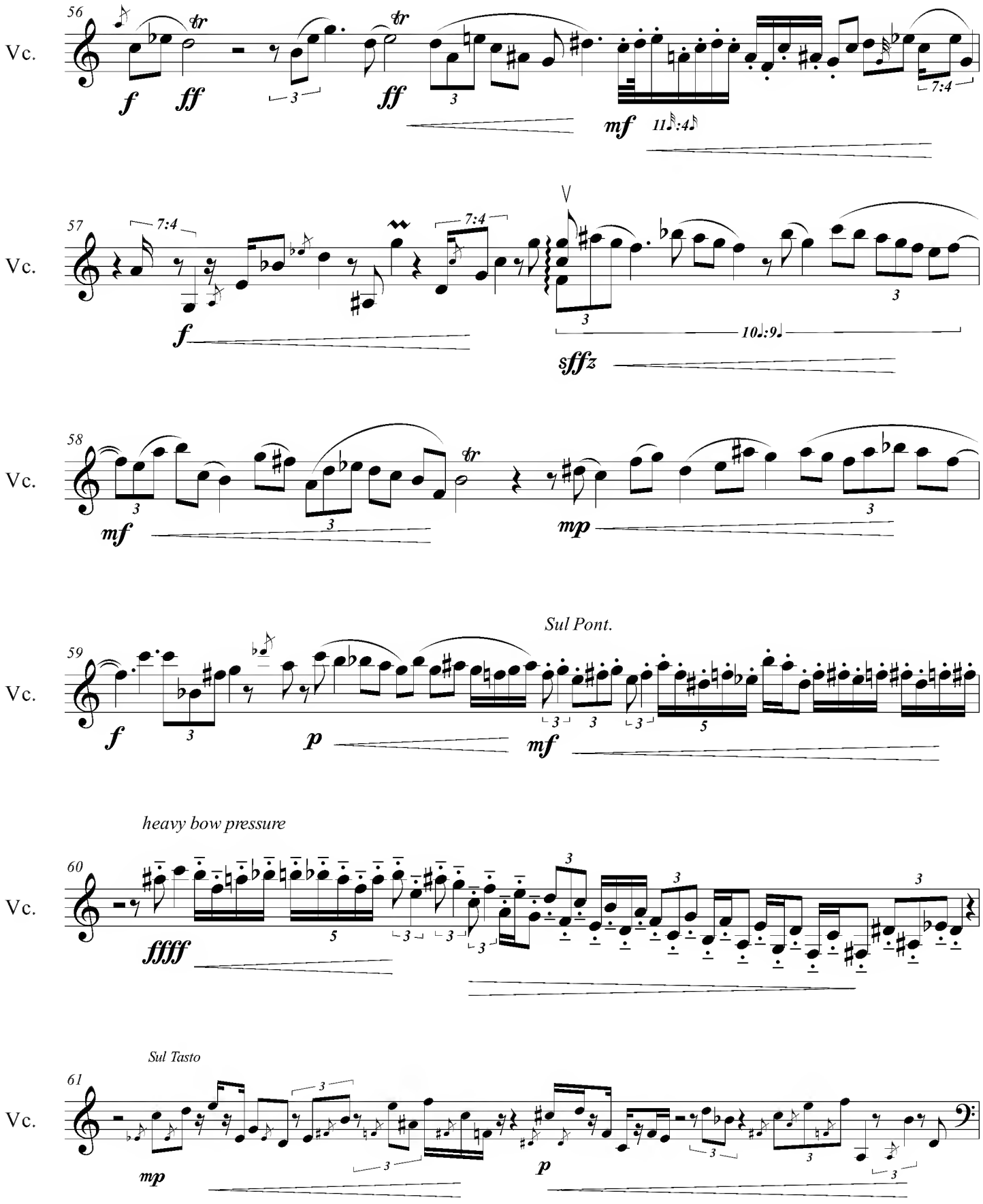

Sul Pont. variable bow pressure
25
Vc.
fff
ff
tr
26
Ord.
Vc.
mf
27
Vc.
mp
f
28
Vc.
f
29
Vc.
mp
p
30
Vc.
fff
f
fz

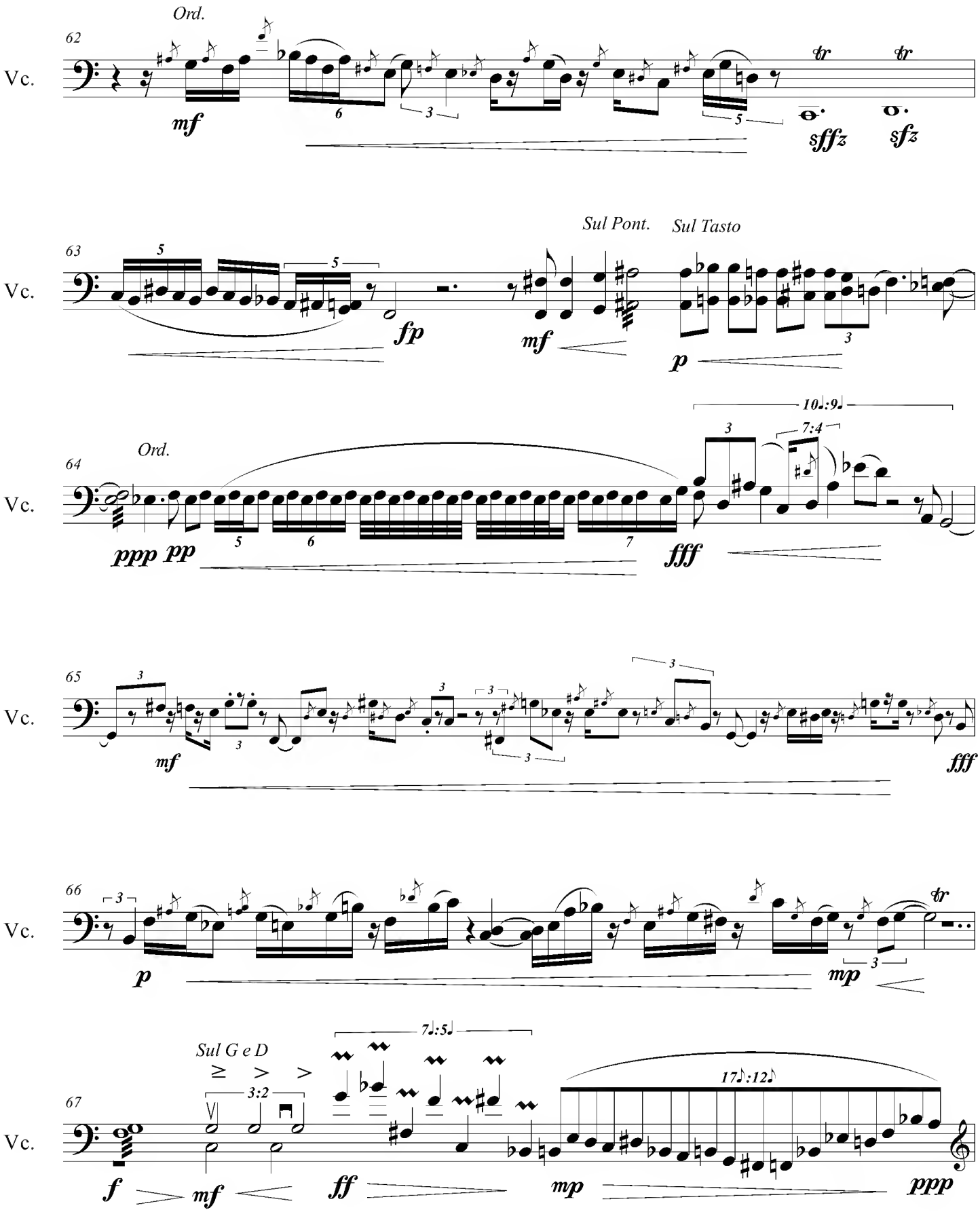

31
Vc.
10:8
p
f
Sul Pont.
heavy bow pressure
3
fff
32
Vc.
ffff
5
mf
33
Vc.
mp
f
fz
3
tr
6:5
34
Vc.
3
mf
mp
3
ff
35
Vc.
3
3
3
ffff
Sul Pont.
variable bow pressure
36
Vc.
5:4
f
ff
6:4
fff

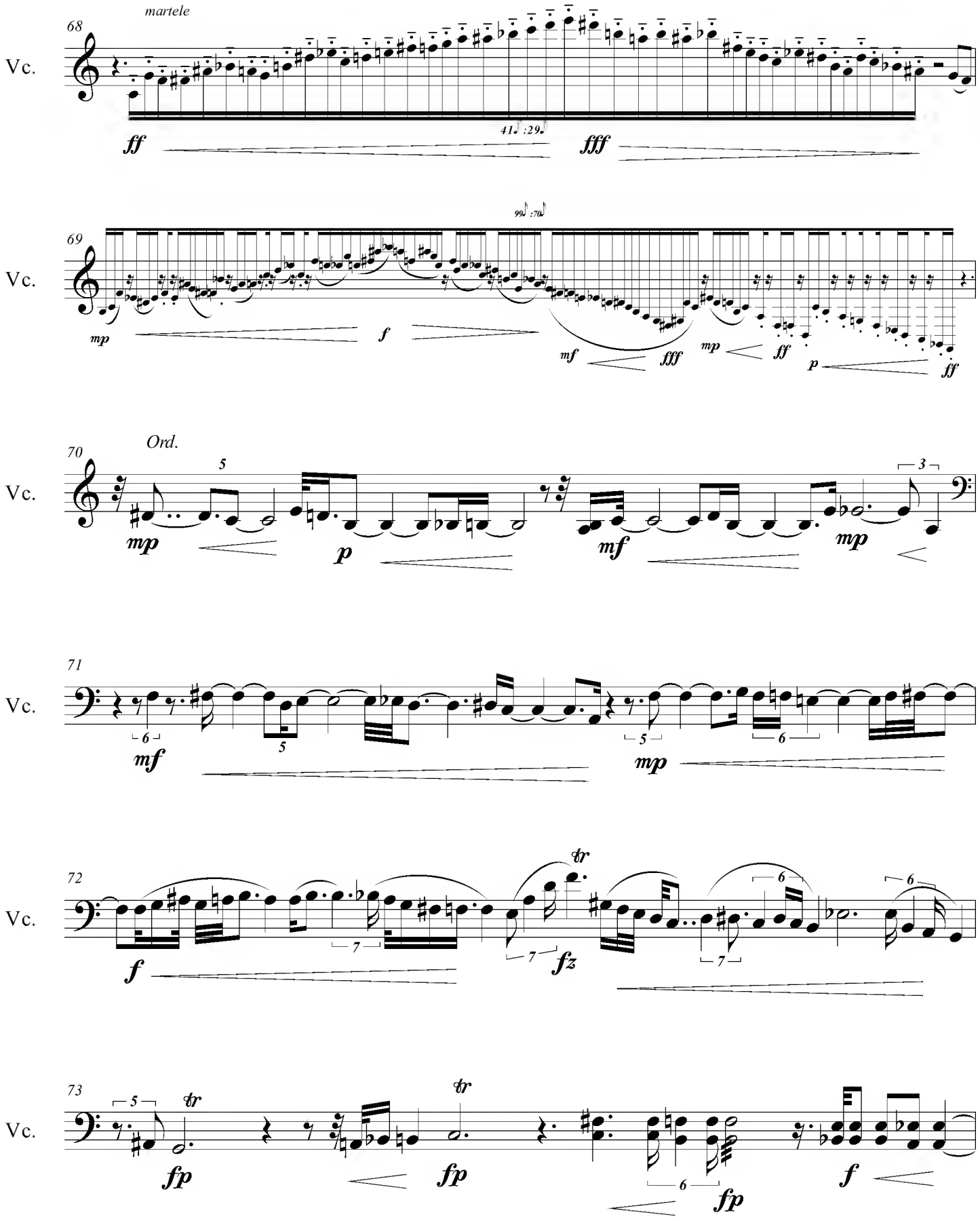

Ord.
37
Vc.
5:4
5
ff
fff
mf
9♩:10♩
5:4
3
3
ff
38
Vc.
f
ff
39
Vc.
fff
Sul D e A
sffz
3
6♩:5♩
fz
40
Vc.
6♪:4♪
f
5♪:8♪
fff
tr
mf
Sul D e A
ff
41
Vc.
5
mf
5
3
f
7:4♪
mf
42
Vc.
ff
3
3
mf
3
mp
3

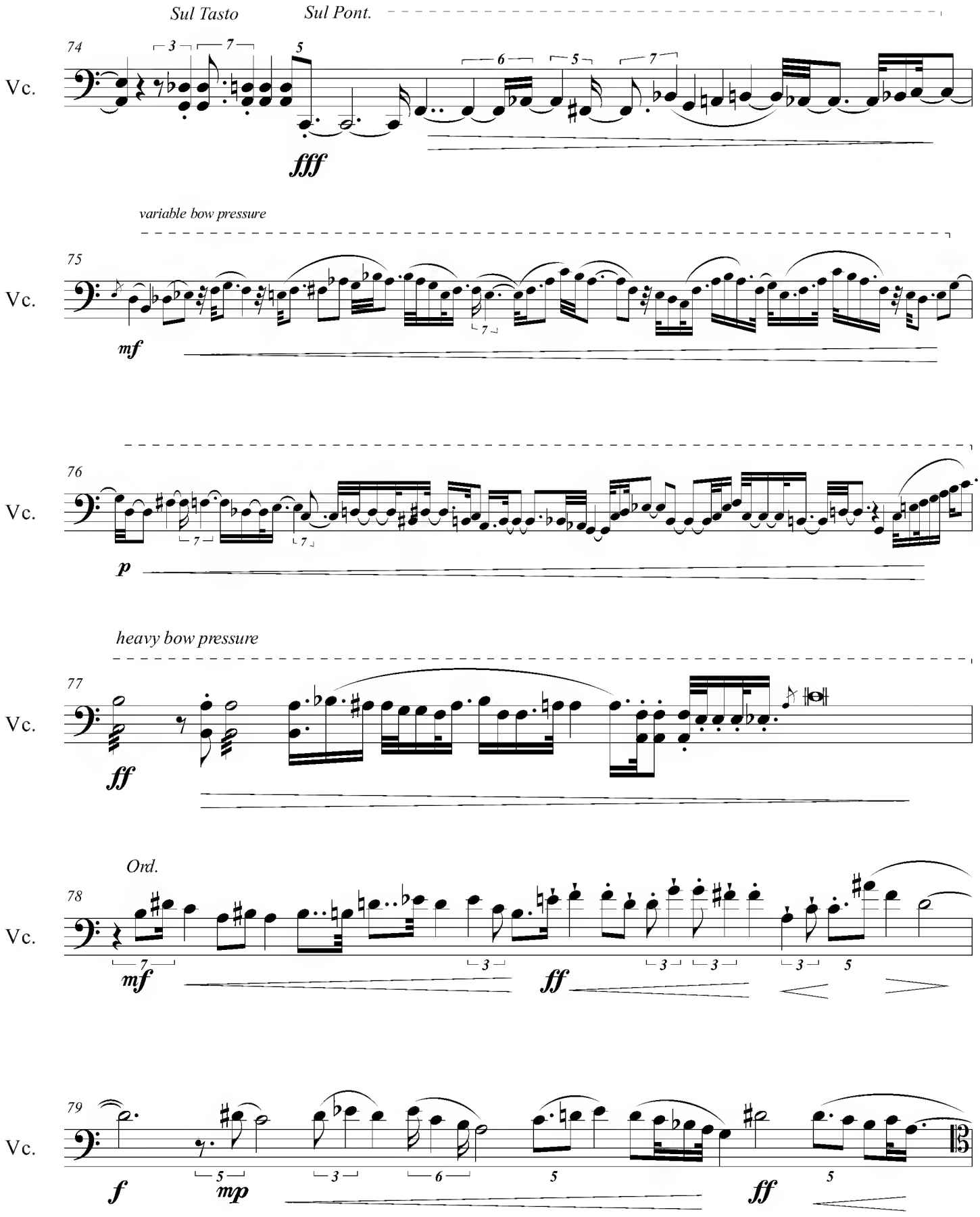

43
Vc.
f
ff
44
Vc.
mf
fff
45
Vc.
ff
46
Vc.
f
7:4
48
Vc.
mf
f
heavy bow pressure
49
Vc.
ffff

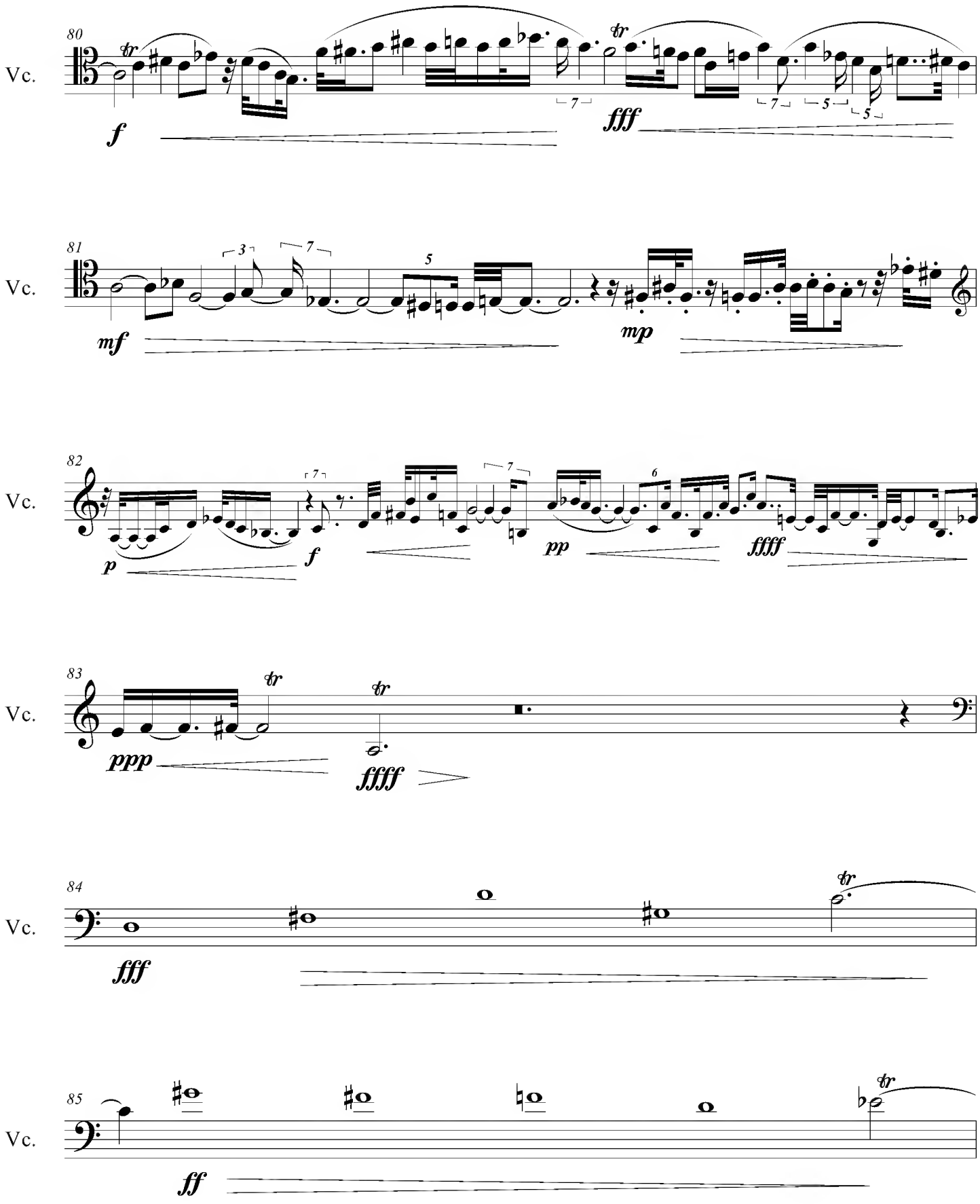

50
Vc.
0
+50
mf
fff
+50
p
19/4
Primo Tempo
Andante Maestoso ♩ = 84.85
51
Vc.
14 edo
6
5
f
fz
sfz
fff
3
3
sfz
52
Vc.
7:4
f
7
mp
3
mf
53
Vc.
mf
tr
ff
3
3
f
3
3
54
Vc.
ff
3
3
mf
3
3
3
3
fff
sffz
55
Vc.
pp
3
3
fff

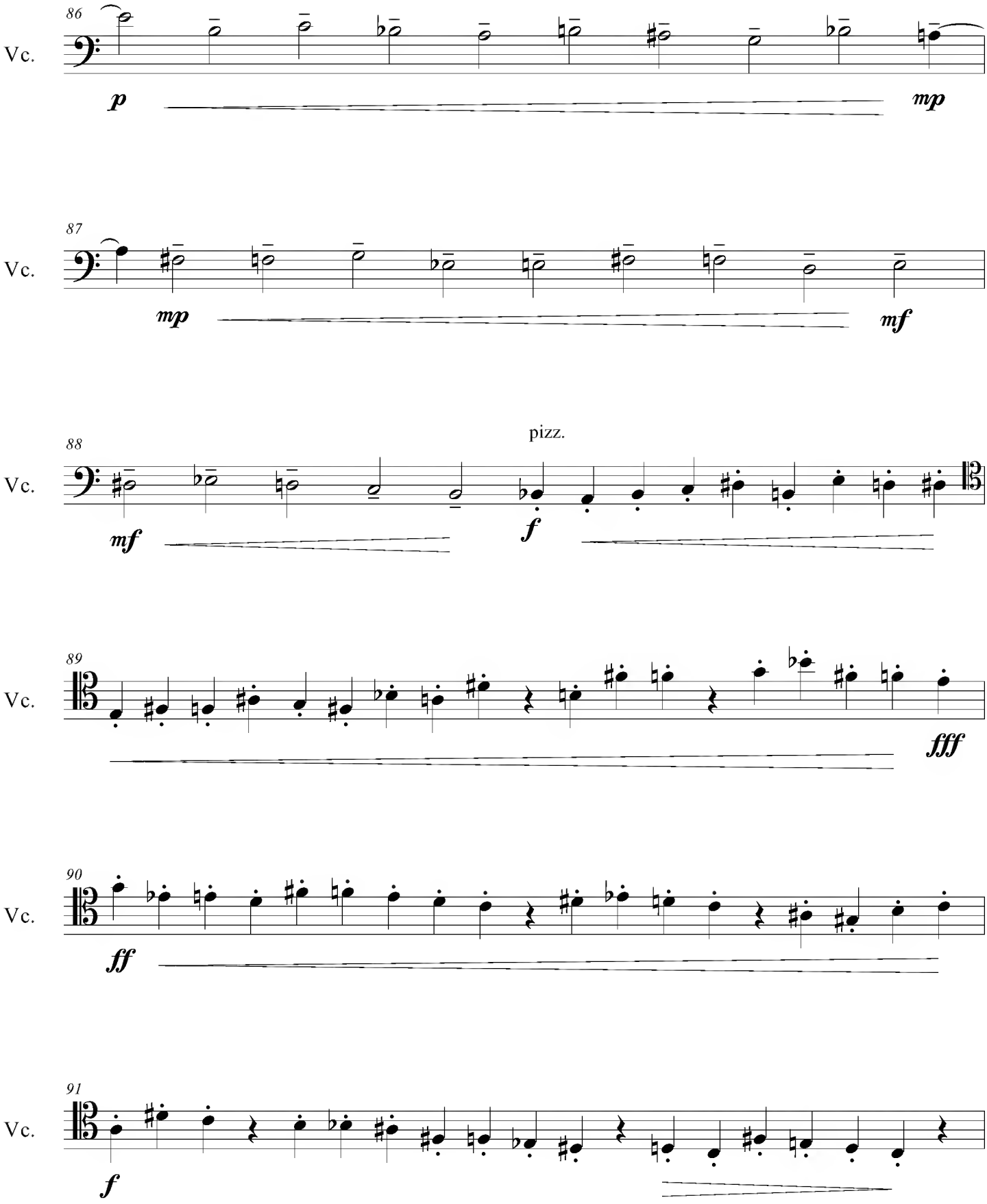

56
Vc.
f
ff
ff
mf
11𝅘𝅥𝅯:4𝅘𝅥𝅯
7:4
57
Vc.
7:4
7:4
f
10𝅗𝅥:9𝅗𝅥
sfffz
58
Vc.
mf
mp
59
Vc.
Sul Pont.
f
p
mf
heavy bow pressure
60
Vc.
fffff
Sul Tasto
61
Vc.
mp
p

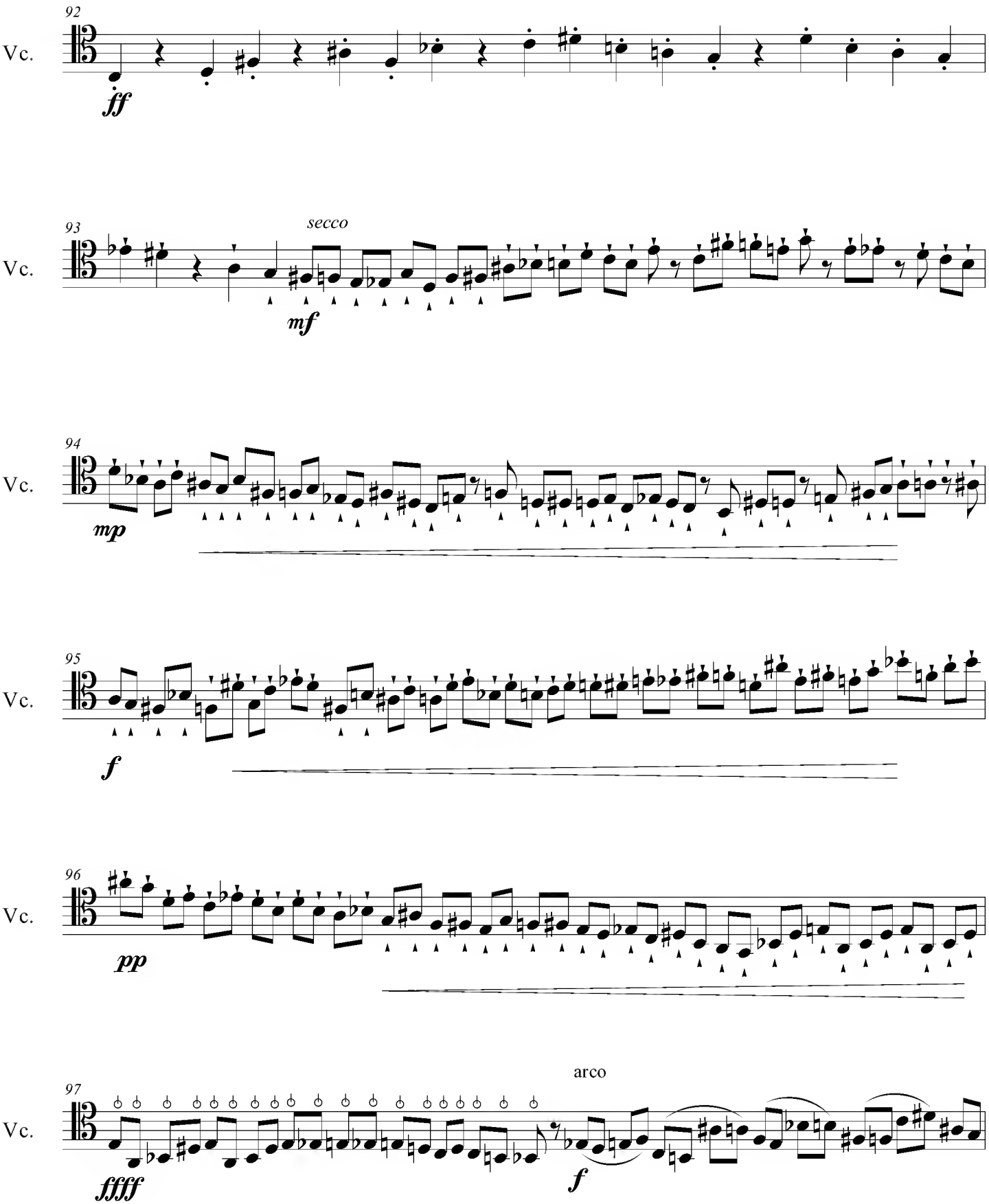

62
Vc.
Ord.
mf
sffz
sfz
63
Vc.
Sul Pont.
Sul Tasto
fp
mf
p
64
Vc.
Ord.
ppp
pp
10♩.:9♩
7:4
fff
65
Vc.
mf
fff
66
Vc.
p
mp
67
Vc.
Sul G e D
3:2
7♩.:5♩
17♪:12♪
f
mf
ff
mp
ppp

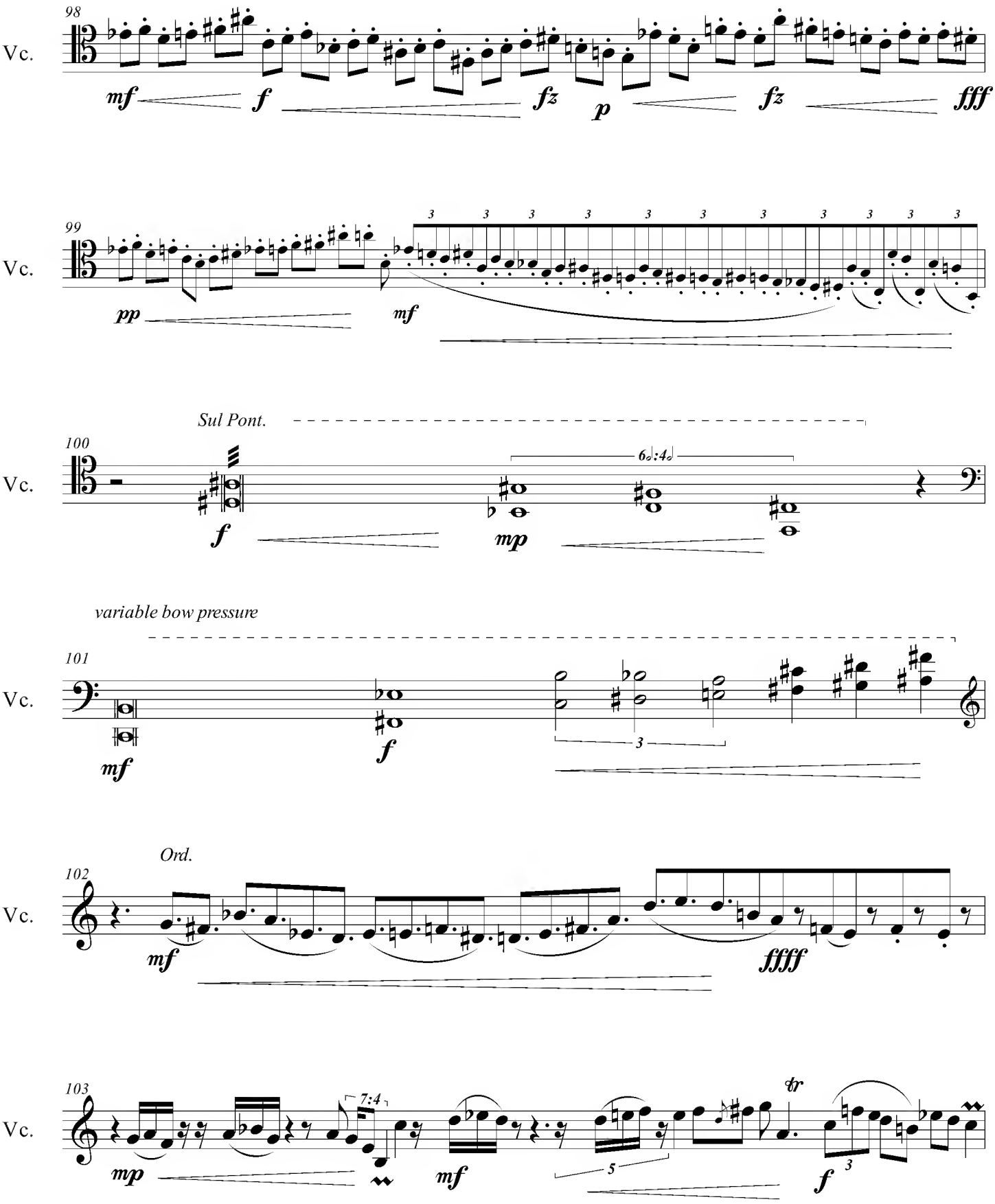

68
martele
Vc.
ff
41. :29.
fff
69
Vc.
mp
f
99 :70
mf
fff
mp
ff
p
ff
70
Ord.
Vc.
mp
p
mf
mp
71
Vc.
mf
mp
72
Vc.
f
fz
73
Vc.
fp
fp
fp
f

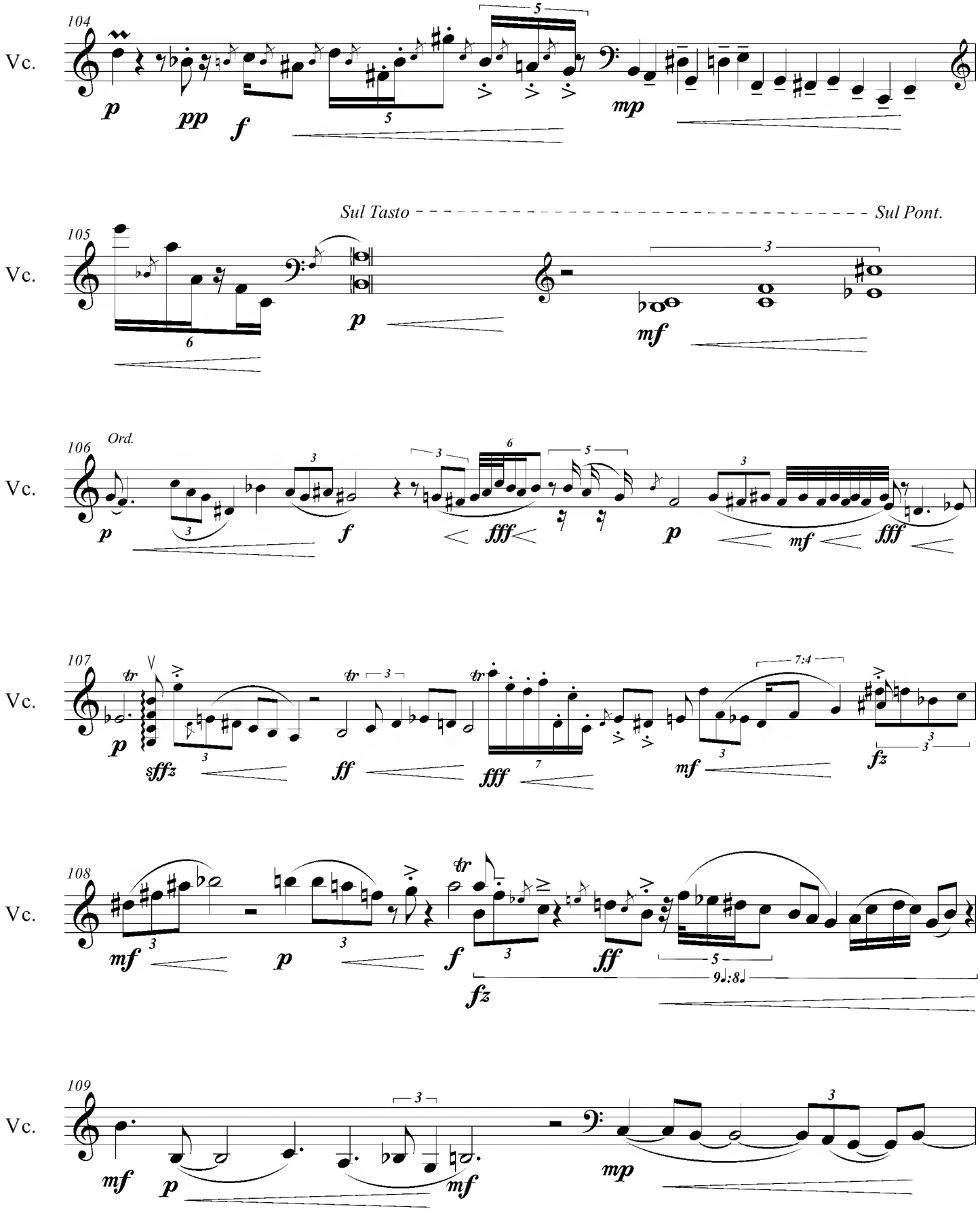

Sul Tasto
Sul Pont.
74
Vc.
fff
variable bow pressure
75
Vc.
mf
76
Vc.
p
heavy bow pressure
77
Vc.
ff
Ord.
78
Vc.
mf
ff
79
Vc.
f
mp
ff

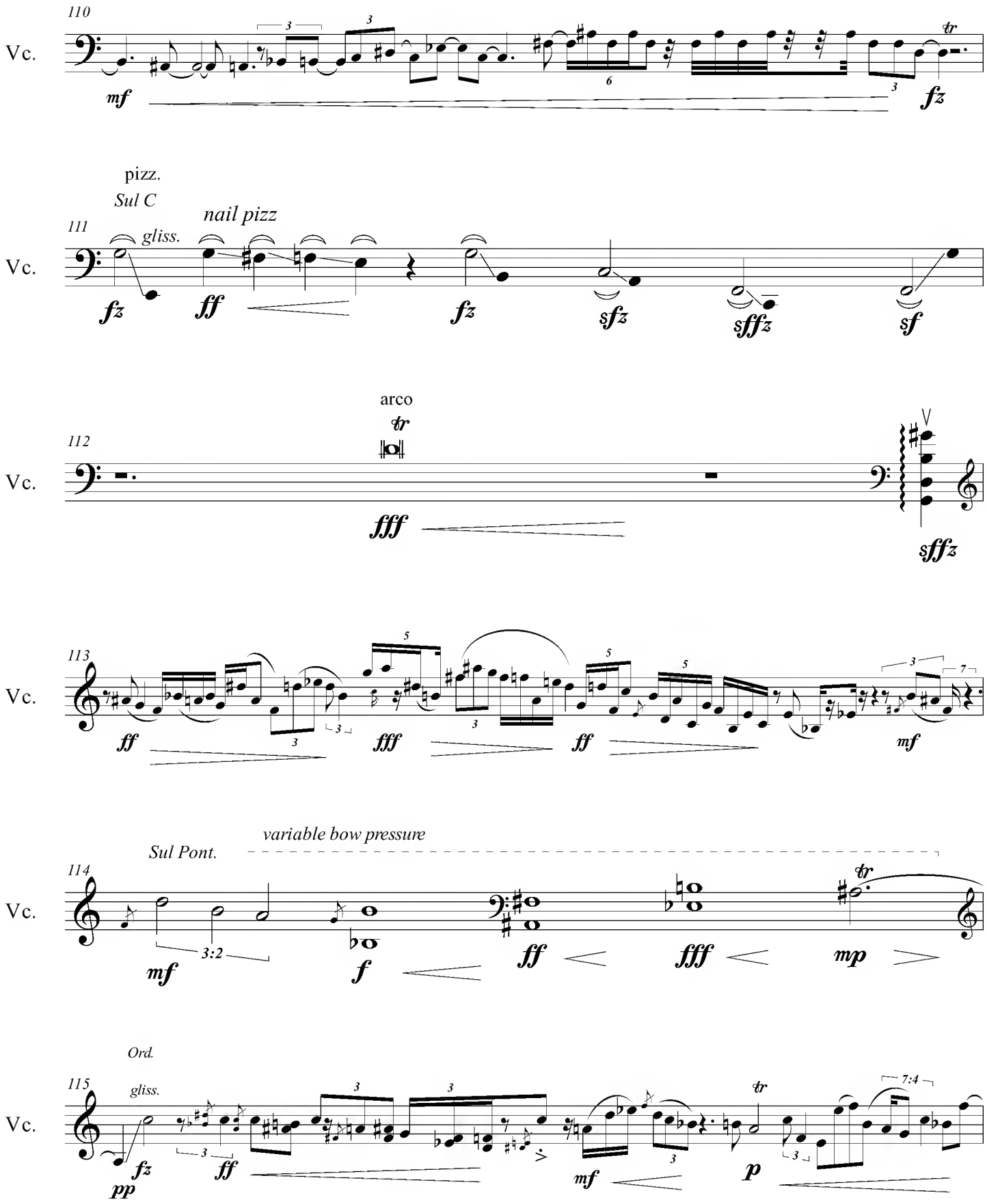

80
Vc.
f
fff
81
Vc.
mf
mp
82
Vc.
p
f
pp
ffff
83
Vc.
ppp
ffff
84
Vc.
fff
85
Vc.
ff

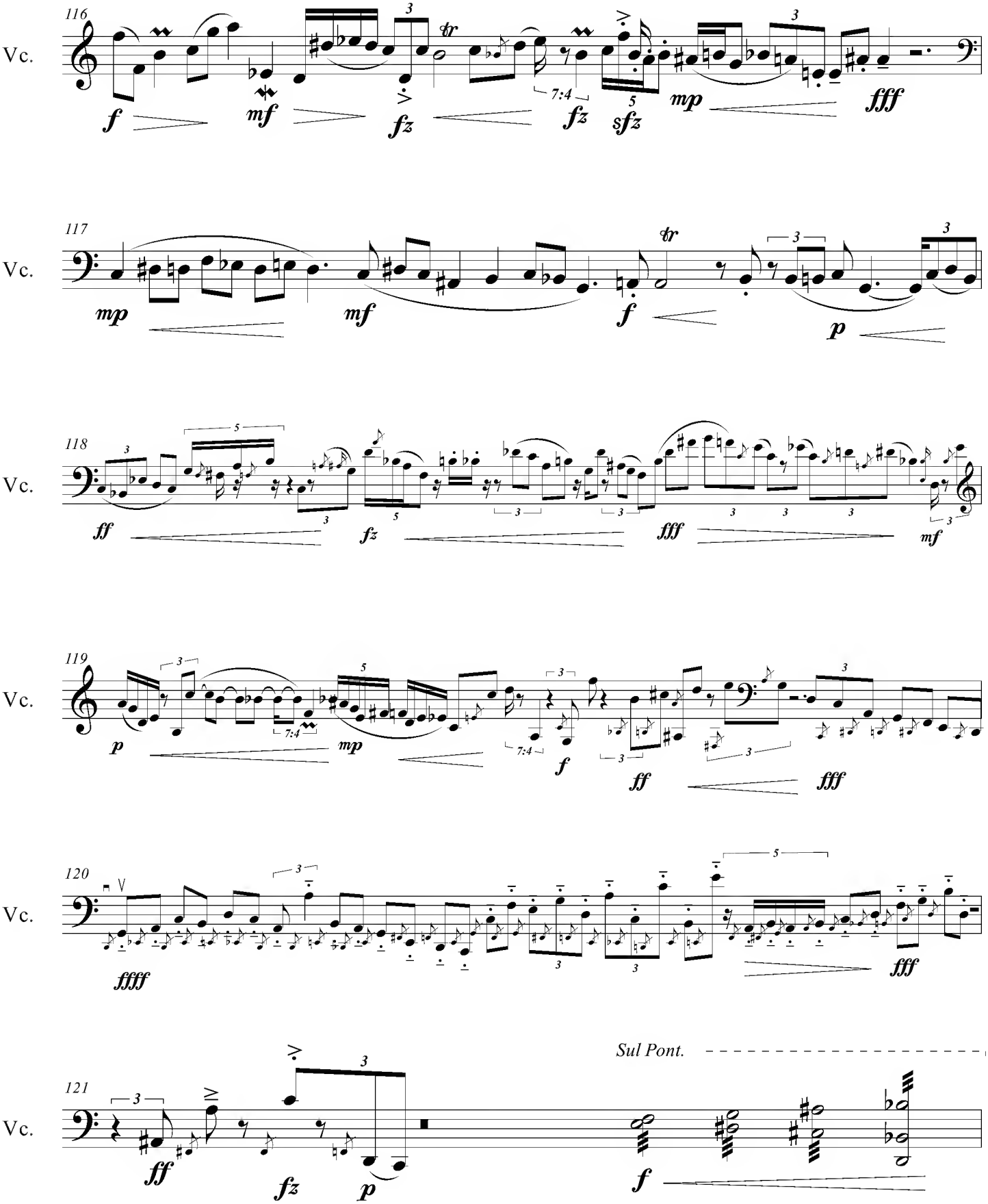

86
Vc.
p
mp
87
Vc.
mp
mf
88
pizz.
Vc.
mf
f
89
Vc.
fff
90
Vc.
ff
91
Vc.
f

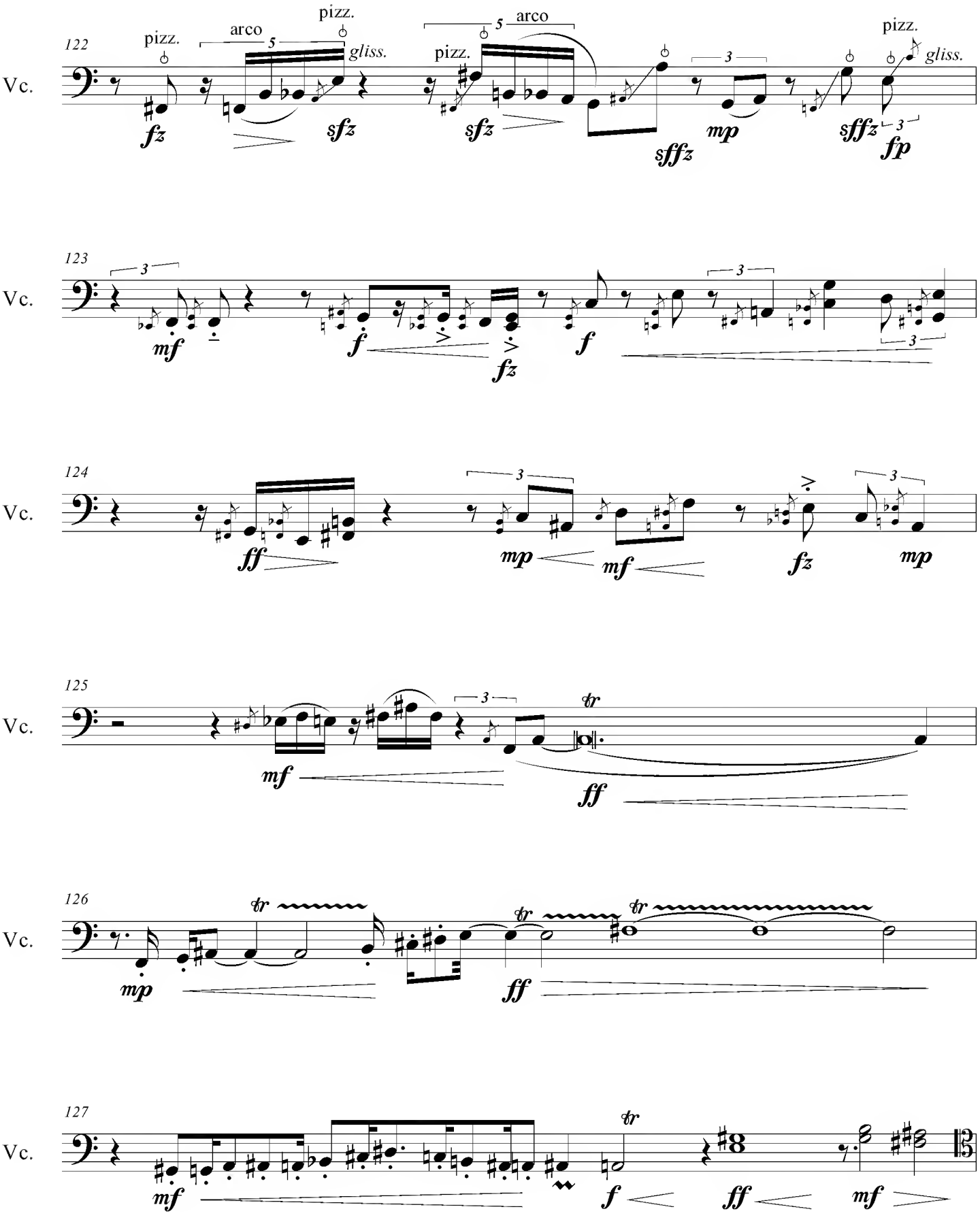

92
Vc.
ff
93
Vc.
secco
mf
94
Vc.
mp
95
Vc.
f
96
Vc.
pp
97
Vc.
ffff
arco
f

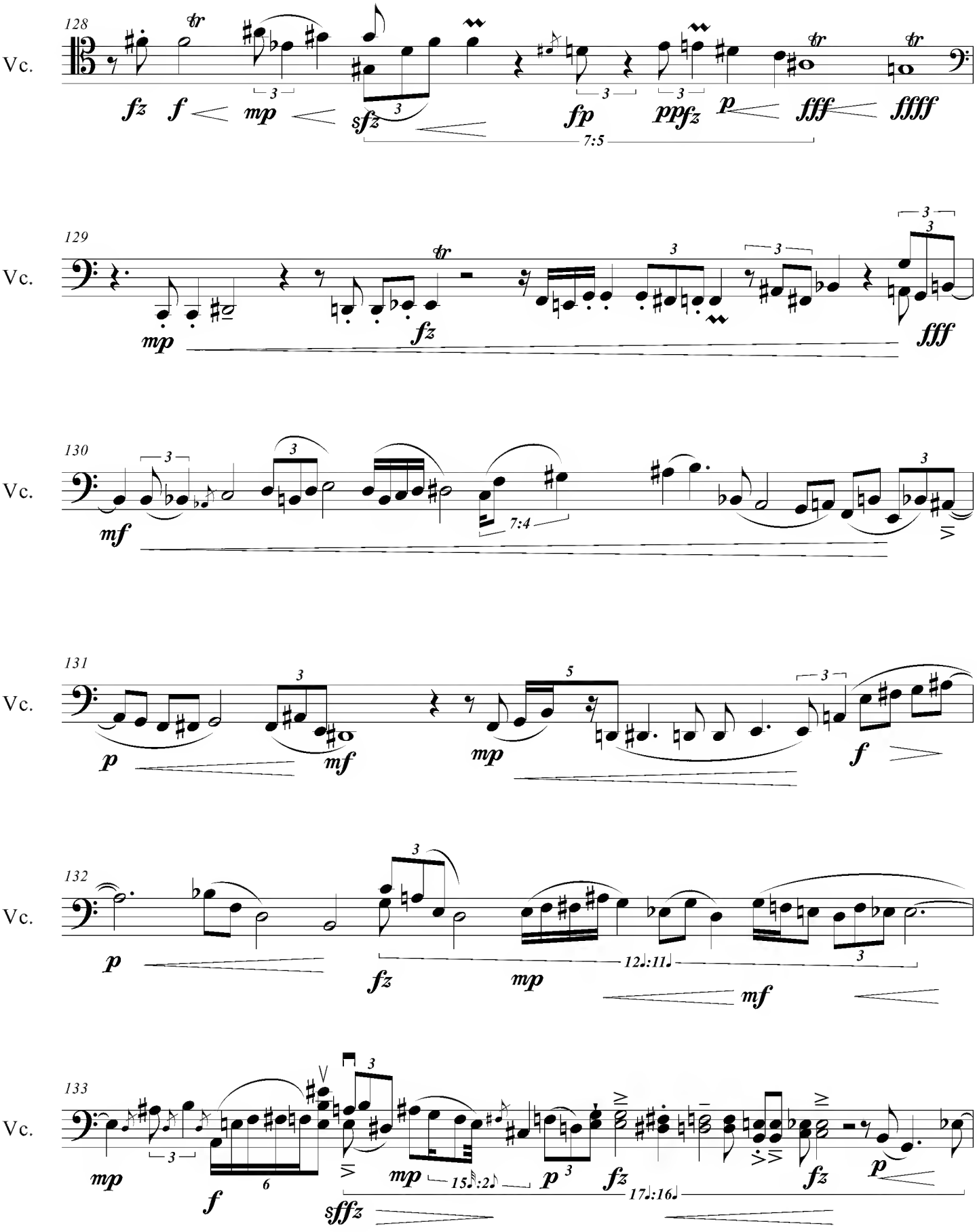

98
Vc.
mf
f
fz
p
fz
fff
99
Vc.
pp
mf
Sul Pont.
100
Vc.
f
mp
6:4
variable bow pressure
101
Vc.
mf
f
3
Ord.
102
Vc.
mf
ffff
103
Vc.
mp
7:4
mf
5
tr
f
3

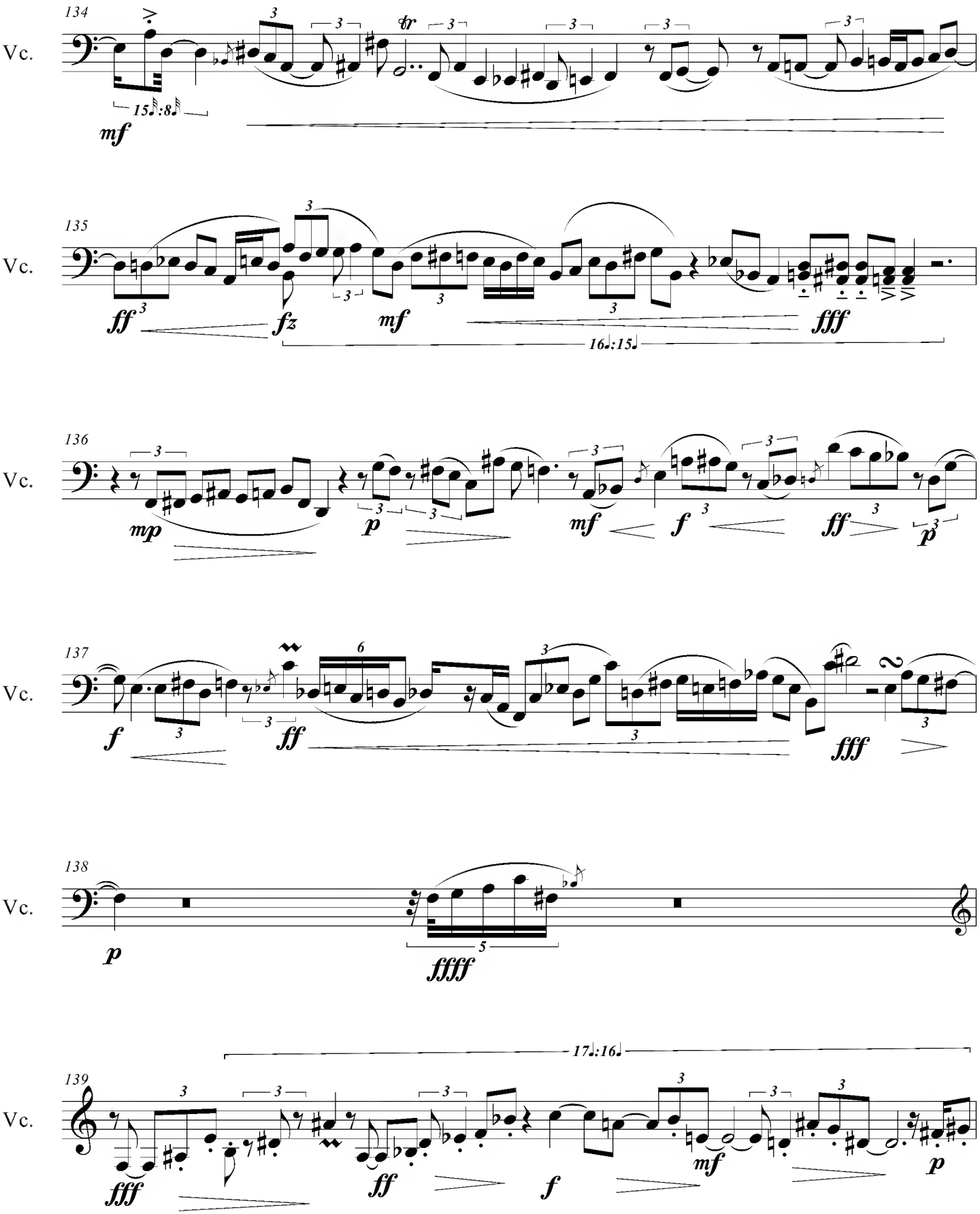

104
Vc.
105
Sul Tasto
Sul Pont.
106
Ord.
107
108
109
9♩:8♩

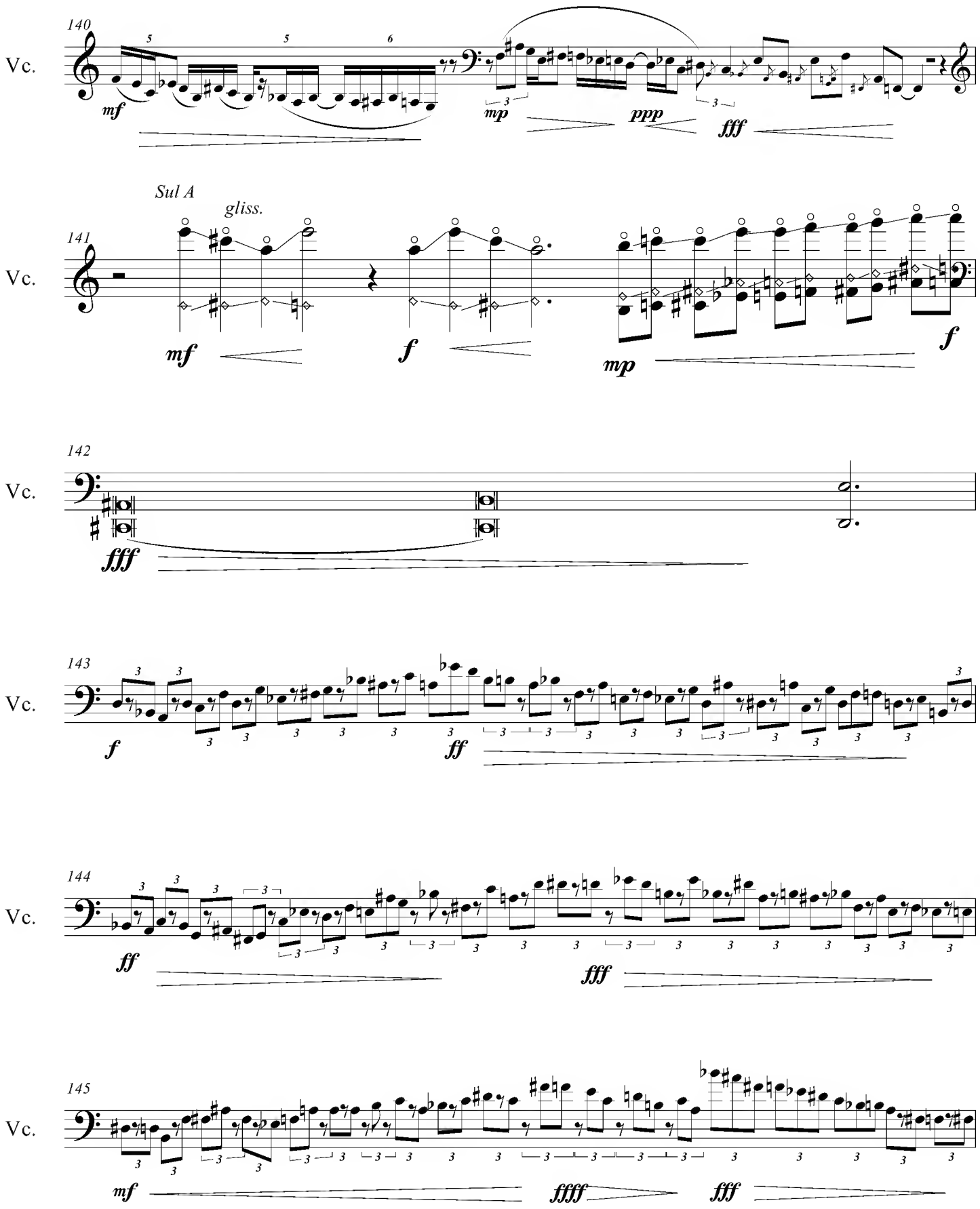

110
Vc.
mf
fz
pizz.
Sul C
nail pizz
111
gliss.
fz
ff
fz
sfz
sffz
sf
arco
112
fff
sffz
113
ff
fff
ff
mf
Sul Pont.
variable bow pressure
114
3:2
mf
f
ff
fff
mp
Ord.
115
gliss.
pp
fz
ff
mf
p
7:4

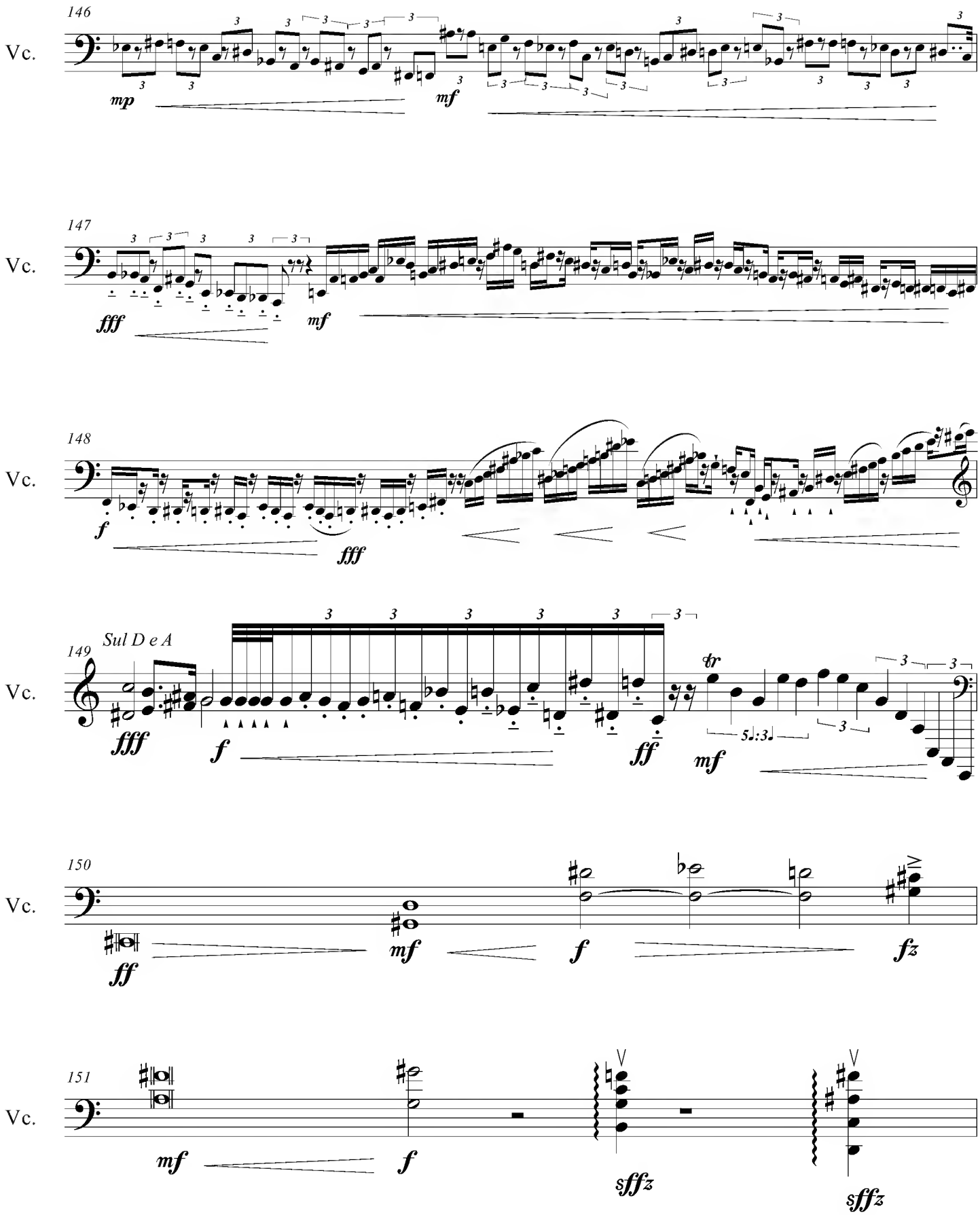

116
Vc.
f
mf
fz
fz
sfz
mp
fff
117
Vc.
mp
mf
f
p
118
Vc.
ff
fz
fff
mf
119
Vc.
p
mp
f
ff
fff
120
Vc.
ffff
fff
121
Vc.
ff
fz
p
Sul Pont.
f

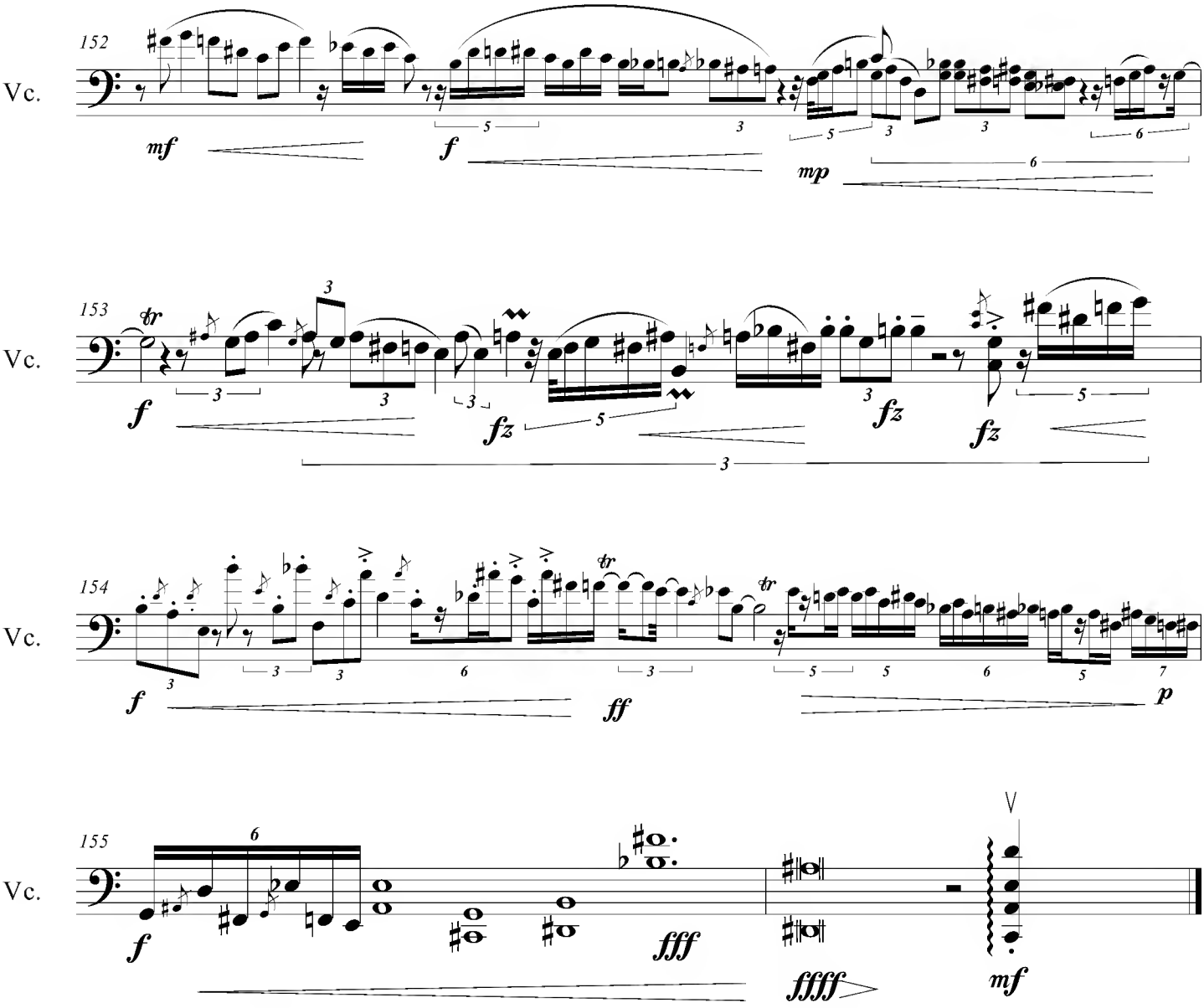

122
Vc.
pizz.
arco
pizz.
gliss.
pizz.
arco
pizz.
gliss.
fz
sfz
sfz
sffz
mp
sffz
fp
123
Vc.
mf
f
fz
f
124
Vc.
ff
mp
mf
fz
mp
125
Vc.
mf
tr
ff
126
Vc.
tr
tr
tr
mp
ff
127
Vc.
mf
tr
f
ff
mf


128
Vc.
fz f mp sfz fp ppfz p fff ffff
7:5
129
Vc.
mp fz fff
130
Vc.
mf 7:4
131
Vc.
p mf mp f
132
Vc.
p fz mp 12♩:11♩ mf
133
Vc.
mp f mp 15𝅘𝅥𝅯:2♪ p fz 17♩:16♩ fz p sffz


134
Vc.
15𝅘𝅥𝅯:8𝅘𝅥𝅯
mf
135
Vc.
ff
fz
mf
fff
16𝅗𝅥:15𝅗𝅥
136
Vc.
mp
p
mf
f
ff
p
137
Vc.
f
ff
fff
138
Vc.
p
ffff
17𝅗𝅥:16𝅗𝅥
139
Vc.
fff
ff
f
mf
p


140
Vc.
mf
mp
ppp
fff
Sul A
gliss.
141
Vc.
mf
f
mp
f
142
Vc.
fff
143
Vc.
f
ff
144
Vc.
ff
fff
145
Vc.
mf
ffff
fff


146
Vc.
mp
mf
147
Vc.
fff
mf
148
Vc.
f
fff
149
Sul D e A
Vc.
fff
f
ff
mf
tr
5:3
150
Vc.
ff
mf
f
fz
151
Vc.
mf
f
sffz
sffz


152
Vc.
mf
f
mp
153
Vc.
f
fz
fz
fz
154
Vc.
f
ff
p
155
Vc.
f
fff
ffff
mf